

Manufacturers Record

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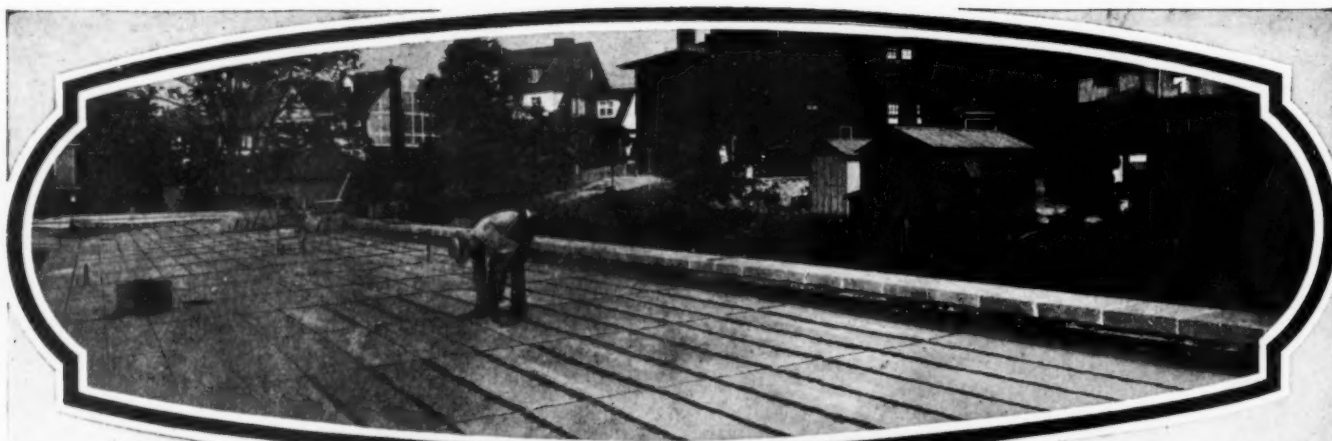
Baltimore, Md.
AUGUST 9, 1928

Bird's-Eye View of the South's Economic and Industrial Progress.

At the request of the Institute of Public Affairs, now holding its session at the University of Virginia, the editor of the Manufacturers Record prepared an address on the economic and industrial progress of the South. Into this address there have been gathered many facts and figures which, although not entirely new, yet, taken as a whole, give a rather broader and more comprehensive bird's-eye view of the South and its progress than has appeared in any other one publication. Notwithstanding the length of the address, it is printed in full in this issue.

Statements from many great business leaders and men of affairs, made 40 years ago or more, in regard to the vast resources of the South and the future of this section are quoted and facts given to show that their predictions have been largely more than fulfilled.

Here is a story or romance of industry and agriculture and the rebuilding of the fortunes of the South, and a picture of what this section is to become, that must inevitably stir the heart of every man and woman in the South who cares to study a summary of things pertaining to the Old South, the South of today and the South of the future. Without any attempt to paint any glowing pictures, the story is one which in itself is a romance of facts that should be known by every man and woman interested in the South, either as a native of that section or an inhabitant of it from other sections, and by the people of other parts of the country who are beginning to realize something of what the South is, and what it is destined to become—one of the great upbuilding forces of America.



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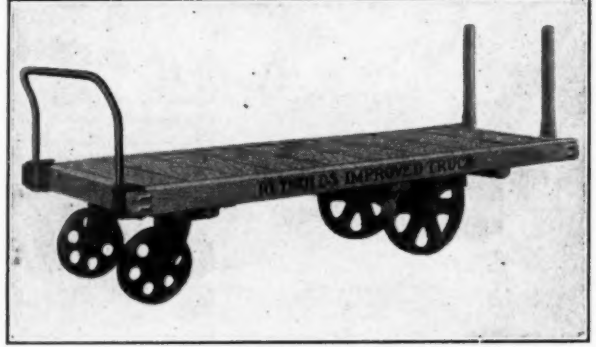
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What Herbert Hoover Thinks of the South.

IN September, 1926, Secretary of Commerce Herbert Hoover, in an interview with a member of the staff of the MANUFACTURERS RECORD, made many striking statements in regard to the South, its progress and resources, worth considering at the present time. He reported that he saw amazing progress in many fields in the South, and added:

"The educational system, that sensitive gauge of development, is progressing far more rapidly in the South than anywhere else in the country."

This, he thought, was due partly to the fact that a few years back the South's educational system was behind that of the other states, but that now there was an aroused aggressive public demand for the best educational facilities that could be had.

The most conspicuous feature of the South's industrial situation, Mr. Hoover said, was "water-power, both in abundance and cheapness. The South has a total potential water-power of about 8,000,000 horsepower, of which only about 2,500,000 has been developed."

"The South's great strength for future industrial development," said Mr. Hoover, "lies in a fortunate combination of factors, chief of which are water-power, transportation facilities and natural resources. The water-power resources have already been mentioned. Besides the network of railways that cover the South, there are also the inland waterways and the coastwise routes. The South Atlantic States have their harbors, by which they reach other ports and the ports of the world.

"To the west and north of them flows that great, three pronged system, the Ohio, the Mississippi and the Missouri, reaching from West Virginia and Kentucky to the Gulf of Mexico on the South and 1000 miles west to Cairo, Ill., with the probability of future extension into the Dakotas. In the extreme Southwest is the intracoastal canal of Texas and Louisiana, already partly constructed, with its future completion apparently assured, adding another long stretch to the great Mississippi River system. In the East is the Chesapeake Bay, which together with the Maryland-Delaware Canal and the Delaware River opens up to Baltimore and other Bay cities by an inland waterway a string of large Eastern ports, culminating in New York city.

"The third great factor in the South's industrial power—raw materials—is so great as to make this fortunate section independent of the world for nearly everything it needs and most of the things it can want. Among the minerals, iron ores, with the great iron and steel industries and their intricate ramifications; coal, with all that it means in iron manufacture, in power, in heating, in the chemical industries such as dye making and certain medicines, and in gas manufacture, and limestone, the flux so vital in the first step of iron

and steel manufacture, occur in great abundance and highest quality, close together and in some localities even super-imposed. Natural gas and oil, immense deposits of the finest china clays, sulphur, phosphate rock, bauxite, asphalt rock, mineral paints, building stone, marble and a host of others, forty-odd of which are now being produced.

"Among agricultural products, besides the fruits and vegetables sold fresh and requiring no manufacture, are all the grains that are grown in other sections, and on which great industries are built; and in addition, cotton—the basis, besides the cotton-mill industry, of the cottonseed-oil industry, which provides food for man and one of our greatest feeds for cattle; and the cellulose that goes into celluloid, rayon and a number of other products.

"Still another combination of factors of great strength in the South is that of industry and agriculture. Agriculture far removed from industry cannot attain its full development, for industry furnishes its greatest market. And inversely, prosperous agricultural communities around industrial centers provide local markets of great value, and serve as a reservoir of vigorous labor. In the South the presence of mineral resources in the midst of great agricultural regions gives rise to a peculiarly strong combination of this sort.

"But there is much the South must yet learn before it will come into a full realization of its possibilities. Great industries cannot be developed without able engineers, chemists and executives. The Southern states and Southern men of wealth must learn to spend far more freely than they have yet done for institutions of higher learning. Duke has so far been the one Southern man of great wealth to richly endow a university in his native state, but fortunes are yearly more numerous in the South, and other individuals, as well as states, must follow his lead. After all, the one greatest resource any section can have is its people. The South must learn to appreciate this fact, and to spare no effort and no expense in training its future leaders."

In an extremely interesting and comprehensive interview published in the Nashville Tennessean and a large number of other publications, Mr. Hoover, in the summer of 1927, said:

"The South is in an economic renaissance. It is not a question when the advance of the South will begin—it is a question of going on with it. The South began its renaissance 25 years ago.

"Industrially the South is a section of the world where the largest development must take place in the next 25 years."

When the great floods swept over the Mississippi Valley, rendering, for the time being, homeless over 600,000 people, Mr. Hoover handled the whole situation of relief for these people with that same consummate ability which marked his almost miraculous work in feeding the people of Belgium.

At that time he was praised unstintedly by hundreds of thousands of Southern people, who felt the influence for good of his tremendous physical and mental activity, working day and night in rescuing men and women, housing and feeding them.

To the South the election of Mr. Herbert Hoover would, in our opinion, based on some knowledge of his achievements and his full recognition of the South's great resources and advantages, prove to be the greatest power for the advancement of this section that could be brought to the forefront.

In the Bryan campaign of 1896, when the South developed an intense bitterness against William McKinley and the Republican campaign, going almost wild in its devotion to the Democratic blunder of Free Silver merely because it had been a part of the National Democratic Platform, there were many men of outstanding ability in the South who refused to bow before this silver calf, and stood out manfully against Mr. Bryan and Free Silver.

At that time the South was suffering, like the rest of the country, extreme agricultural and industrial depression. Shortly after the election of Mr. McKinley there came a great turn in business activity, and the South went forward with the giant strides of the fabled Seven League Boots. Mr. McKinley, who had been derided and denounced by the South, became as much the idol of the Southern people as he was of those of the North and West, and when he died the people of the South mourned his departure as one of the greatest calamities that had come upon the South and upon the country at large.

History can repeat itself in this campaign, for the election of Mr. Hoover would, in our opinion, result in a tremendous advancement of every interest of the South, industrial, agricultural and educational alike; and this section would have in the presidential chair a man of truly marvelous executive ability, appreciating and unstintedly admiring the people of the South, and fully realizing the limitless potentialities for the further enrichment of the South, and, through the South, of the nation.

A FINE TRIBUTE TO SOUTHERN MILL TOWNS.

UNDER the heading, "Go South, Young Man, Go South," the Iron Age pays a high tribute to the mill towns of the Central South. What it says on that subject is so directly in line with what the MANUFACTURERS RECORD has constantly proclaimed that we publish it in full as follows:

"Company towns,' mill towns' and coal mining camps are all too frequently aggregations of unkempt shanties, and the inhabitants gradually acquire the same state of dishevelment. Of course, there are exceptions and fortunately their number is growing. In all industries and in all States are model towns which must be the envy of their neighbors and undoubtedly attract the highest type of residents. In this way the practical philanthropy behind the town-planning scheme reaps handsome dividends in a decreased labor turnover, a better-than-average skill throughout the working force, and a cheerfulness and contentment which comes from good home surroundings.

"Of course, the danger of paternalism must be avoided. But it is apparent to anyone who travels through the newly developing region in North Carolina that a safe middle course can be steered. Here are dozens of little communities, each containing several hundred cottages, clustering about a spinning or a weaving plant. Nature is kind, and only a little effort is needed to adorn the premises with flowers, shrubs and shady arbors. While some of the villages are so new the first coat of paint has hardly been weatherbeaten, yet the general impression given by all of them is one of thrift, cleanliness and wholesome living.

"A new name should be invented for them. They are so much different from the 'mill towns' of New England that the term does not apply. It would be like putting a rose bud and a cockle burr in the same classification."

A STRONG CATHOLIC ORGANIZATION WORKING FOR PROHIBITION.

IT is an interesting fact, as we have from time to time stated in the MANUFACTURERS RECORD, that there is an active and aggressive organization entitled, "Association of Catholics Favoring Prohibition." The president is Rev. John J. Curran, of Wilkes-Barre, Pa., and the secretary is P. H. Callahan, one of the foremost business men of Louisville, Ky., who has long been an active worker in behalf of Prohibition and who sought vigorously to prevent the nomination of Governor Smith on the ground that the very fact of his nomination would, among other things, do the Catholic cause in this country great harm.

John J. Raskob recently published and widely circulated a letter which he had written to Mr. Callahan opposing Prohibition. Mr. Callahan wrote in reply a strong letter in favor of Prohibition, but it has been impossible to secure for it any such wide publicity as was given to Mr. Raskob's letter. In a letter to this paper, Mr. Callahan writes:

"As you will surmise, I had great difficulty in getting any sort of publicity but I am having the letter printed in brochure form for wide distribution.

"The New York World, for instance, carried the Raskob letter on its first page as a feature article but never mentioned my reply or even acknowledged it."

We are sure that Mr. Callahan would be glad to send copies of his letter to anyone who may be interested in his strong views in behalf of Prohibition.

The organizers and executive committee of the Association of Catholics Favoring Prohibition, as shown in a letter from Mr. Callahan, are as follows:

Organizers: Rev. C. P. Baron, Indianapolis, Ind.; P. H. Callahan, Louisville, Ky.; D. F. Connolly, Tulsa, Okla.; Patrick Cudahy, Cudahy, Wis.; Rev. John J. Curran, Wilkes-Barre, Pa.; Rev. J. T. Dougherty, Canandaigua, N. Y.; Edward H. Doyle, Detroit, Mich.; Edward Hines, Chicago, Ill.; Rev. Joseph McNamee, Chicago, Ill.; Barry Murphy, Medina, N. Y.; Judge Jerry B. Sullivan, New York, N. Y.; Frank P. Walsh, Kansas City, Mo., and Rev. George Zurcher, North Evans, N. Y.

Executive Committee: Thomas P. Burke, New York, N. Y.; Charles J. Byrnes, Pittsburgh, Pa.; Rt. Rev. James M. Cleary, Minneapolis, Minn.; C. P. Connolly, East Orange, N. J.; P. H. Conroy, Cincinnati, Ohio; Dr. John G. Coyle, New York, N. Y.; M. J. Cummins, Akron, Ohio; Judge W. H. DeLacey, Washington, D. C.; Francis W. Durbin, Lima, Ohio; Dr. John A. Lapp, Milwaukee, Wis.; Denis A. McCarthy, Boston, Mass.; Frank P. McDermott, Seattle, Wash.; R. W. McGrath, Fredonia, Kansas; A. N. O'Keefe, Jacksonville, Fla.; Miss Alida O'Connor, Chicago, Ill., and Schuyler N. Warren, Jr., New York, N. Y.

Every believer in Prohibition will rejoice that this organization is the representative of many Catholics who, knowing the evils of the liquor traffic, are working in behalf of Prohibition.

[From the Kansas City Star.]

So the Tiger Is to Be Kept at Home.

The Tammany Tiger is obviously a difficult beast to handle in a campaign, and probably it is a wise decision on the part of Smith leaders to try to keep him chained up in New York City. They do not wish to take the risk of the West's feeling itself in the position of the lady in the old limerick:

There was a young lady of Niger
Who smiled as she rode on a tiger.
They came back from the ride
With the lady inside
And the smile on the face of the tiger.

And that is what happened to the Democratic Donkey at Houston—more's the pity.

EFFECT OF IMPROVEMENTS IN CHANNEL OF THE JAMES RIVER TO RICHMOND.

PROBABLY very few people, even among those who have a feeling that the development of inland waterways would be a good thing for the country, have any definite, clearcut ideas of the many commodities that can be more cheaply transported, or of the magnitude of the economies possible, by inland water routes. The Richmond Port Commission, in gathering arguments for the improvement of the James River—Richmond's highway to the sea—sembled some very pertinent data on shipments and specific economies. The commission was in a much better position to secure such data in Richmond than it would have been in many a city that wants its neighboring river developed, because in spite of its shallow depth and sinuosity the James River has for many years been used as a waterway by boats of shallow draft. The commission is therefore able to present figures on economies, as compared with rail shipments, that are being made under existing conditions, and such economies are the best possible indication that improvements in the channel should be made.

The volume of the river traffic is shown by a table compiled from U. S. Army Engineers' Reports, as follows:

Year	Tonnage Receipts	Tonnage Shipments	Commodity Values
1923	317,081	394,772	\$73,518,819
1924	313,169	476,373	67,821,993
1925	357,922	456,685	85,679,691
1926	396,316	545,258	74,264,135
1927	445,051	537,966	82,364,757

The total tonnage for the past 8 years has been greater by 20 per cent than for the greatest preceding 10 years, as shown by the following table from the same source:

AVERAGE TONNAGE.		
1890 to 1900	636,907	
1900 to 1910	557,907	
1910 to 1920	550,890	
1920 to 1927	767,050 (8 years)	

If it continues for the remaining two years of the decade at the average rate of 1920-1927 it will exceed that of 1890-1900 by 51 per cent.

The James River Oil Company estimates that the proposed improvements would save it from \$3000 to \$4000 annually in distance, and about \$25,000 annually in the elimination of flood hazards.

The Standard Shipping Company estimates economies of \$14,000 per year in the delivery of petroleum products to Richmond.

The Eastern Steamship lines estimate a direct saving of \$5000 per year, besides reduction of navigation hazards and cutting an hour and a half to two hours from the present schedule.

The Richmond Cedar Works estimates a saving of \$4000 per year in the cost bringing in their logs.

These few estimates of economies in present volume of shipments by only 4 of the shippers of Richmond total a minimum of \$26,000 per year, and if the larger estimate of shipping cost and the elimination of flood damage mentioned by the James River Oil Company be included, the saving would be \$52,000. This refers merely to economies in handling the present volume of traffic, is far from complete, and takes no account whatever of the very large increases in shipping that would result if the project should be carried out.

Should the channel improvements now contemplated be carried out, it would immediately take a leap upward. In fact, they are bound to grow anyway. The vigor of the traffic movement into and out of the Richmond district will not be denied. The city is now building a dock on the River to cost ultimately \$250,000. The Eastern Steamship Company will shortly begin the construction of a pier costing approximately

\$125,000 and about January 1 the Norfolk Sand and Gravel Corporation will erect a dock about 420 feet long, cost as yet unknown. The United States Department of Commerce states that during 1927 we imported 34,972,907 pounds of Turkish tobacco. The reports points to the fact that a large majority of the cigarettes in the United States are made in Richmond, Winston-Salem, N. C., and Durham, N. C., and draws the conclusion that if the James were navigable for ocean-going vessels the bulk of this tobacco would be unloaded at Richmond. It states that several manufacturers of plug tobacco in Richmond use large amounts of raw sugar, which is now shipped from Cuba to New York and then reshipped to Richmond, whereas with deep water it could be brought direct to Richmond. It points out that large shipments of Swedish wood pulp, which now are unloaded at Norfolk and shipped by rail to Richmond could come directly to Richmond by way of a deeper and straighter channel.

Estimates of what these total economies may amount to must be passed upon by the Engineer Corps. Whether it can reasonably be expected to pay interest on approximately \$6,000,000 remains for them to decide, but in the light of expenditure for other similar projects, it would be astonishing if this one should not prove desirable.

LET THE UNITED STATES CHAMBER OF COMMERCE HOLD ITS NEXT ANNUAL MEETING IN THE SOUTH.

THE Chamber of Commerce of the United States could render a very great service to its members and to the country at large if it would hold its next annual meeting at some central point in the South. Heretofore its meetings have been held in Washington, but other organizations have found it wise to hold their annual meetings in different parts of the country in order to bring about a closer acquaintance on the part of their members with the people of different sections.

The American Iron and Steel Institute, one of the greatest business organizations in the world, held one of its annual meetings in Birmingham. Likewise, last year the National Association of Manufacturers, representing industrial America, met at Chattanooga. The American Bankers Association, representing the vast wealth in the banking interests of the country, holds its annual meetings in different parts of the country, several of them having been held in the South. The National Foreign Trade Council, representing the entire foreign trade interests of the United States, holds its annual meetings in different sections, the last one having been held in Houston, while the next one is to be held in Baltimore.

The Chamber of Commerce of the United States is a little different in its organization from any of these, but there is no more reason why it should not hold a meeting in the South than there are reasons against similar action on the part of other great business organizations. In carrying one of its annual meetings into the central South its members from all parts of the United States would have the opportunity of seeing the amazing resources and development now under way throughout the whole South. Special excursions could be arranged to take those who desired to see different parts of the South, so that every part of this section could be studied by the leaders in that organization. They would thus come into closer touch with the South. They would understand its resources and progress better than they have ever been able to do.

We would, therefore, not only in the interest of the South, but in the interest of the entire country, urge the United States Chamber of Commerce to give serious consideration to holding its next annual meeting in some central Southern city.

SUBSTITUTE BUSINESS PRACTICES FOR PRICE-CUTTING.

ALTHOUGH speaking directly to the membership of the National Association of Flat Rolled Steel Manufacturers and indirectly to the steel trade in general, O. H. Cheney, vice-president of the American Exchange Irving Trust Company, New York, recently voiced some truisms which well may be taken to heart by American industry as a whole. His remedies for shrinking business and for profitless business may thus be summarized:

Practice businesslike pricing, rather than strive for volume at almost any price.

Establish scientific prices, based on actual cost plus a reasonable profit—and, stick to them.

Let steel men refrain from going outside their economic territory to swap business with the other fellow.

Study closely and continuously all facts and conditions in each individual plant and in the whole industry.

Extend the uses for steel and guard against successful rivalry by other products in fields which steel now dominates.

Develop research and the research laboratory both in individual plants and by cooperation within the industry.

Speaking to the steel men, Mr. Cheney addressed every American industry—textile and agriculture, gasoline and marble, wood and advertising.

Passing Mr. Cheney's semi-humorous picture of a buyer playing one producer against another on a contract, one reaches his reason for this destructive and cut-throat rivalry in quest of volume of business at almost any old price.

"If I ask you, 'Why do you cut prices?—why do you juggle quotations and base prices and specifications?' you will answer, 'We must get the business.' You will tell me that the real trouble is the excess capacity of the flat rolled steel producers," said Mr. Cheney, directly addressing that trade, but looking all other American industries squarely in the eye. He continued:

"'Excess capacity' has become a favorite alibi for American business men—and as soon as an alibi becomes popular I begin to be doubtful about its significance. A large proportion of manufacturers are using it to justify price-cutting and extreme tactics of competition. Most of them sincerely believe their complaint—their very sincerity has blinded them to the truth.

"Excess capacity is not the cause of price-cutting—the real cause is the fear of excess capacity. Many industries, including the automobile industry, are making money in spite of excess capacity. I cannot think of a single industry which is not over-extended in plant. It is characteristic of American business men to fall over themselves in building new plants and adding to capacity as soon as there is even a hint of increasing demand.

"The real cause of price-cutting is not in the mere existence of excess capacity, but in the blind grasping for volume to use that capacity. Excess capacity is an inanimate thing—sometimes it is only a disembodied statistic. But grasping for business is a human trait and within the power of every man to overcome. Getting extra volume does not get extra profits—it gets less."

To the comment that "Mergers" is the answer to the problem, Mr. Cheney answered that "there are mergers and mergers—it is time that we got over the notion that any merger is a good merger—that it immediately makes the combined plants more efficient, cuts the overhead and increases profits." There is too much talk, as he saw it, of "putting through a merger." On the contrary, said Mr. Cheney, "Mergers cannot be put through—they must be built up." Practically any business can improve itself by taking thought; but, "merely putting two businesses together, without thought, does not automatically improve them." Indeed, "I have known two boys to make as much of a fight as ten," said Mr. Cheney.

How, then, can this price-cutting be stopped? His answer:

"Only by casting out this craze for volume at any cost and the fear of not getting the volume. This means the scientific

quoting of prices based on actual cost, plus a reasonable profit. It means sticking to quotations. It means going after only a reasonable proportion of the total business based on the average for previous years—and being satisfied with that volume. It means sticking to your own economic territory, instead of trying to flood the country. It means getting a reasonable volume of business by sane and ethical methods and making sure of a legitimate profit on it."

Not that this means price-fixing, or dividing up of business or gentlemen's agreements, Mr. Cheney explained; but, "The one-price policy revolutionized retail merchandising—it can revolutionize the steel industry," and any other industry, he might have added. And, "the best way to carry out a one-price policy is to forget competition." Simply, "Know your cost, know your base price, know your quality—and ask for what you know," as Mr. Cheney put it. Then:

"And the only way to conduct operations on a scientific and practical basis, without under-production and over-production, is to know—to have the facts in a continuous record, not only for your own plant, but also for the whole industry. The only sound way to increase the volume of each company which deserves to exist at all is to increase the total volume of steel sold—to extend its use—to improve it so that its service may be extended."

And to this end Mr. Cheney advocated research and laboratory work. No industry can call its market its own, in these days; for instance: "You think that the automobile industry is yours; but, what are you going to do about the increasing proportion of fabric, instead of steel, in the body? And how about aluminum and aluminum alloys in automobiles and in airplanes? What are you doing to assure yourselves of growing market in the growing airplane industry?" So:

"The two weapons in winning new markets are research and education. Certain steel companies have already demonstrated what these weapons can accomplish. Some of those companies which have developed new products and intelligently promoted their use will be found heading the list of profit-makers. But, if the industry as a whole is going forth to conquer new markets, should the burden be placed on two or three companies?

"Too many of the developments in the use of steel have come from the consuming industries. Study the history of welding, for example. Even the latest development, the use of copper in a hydrogen atmosphere, is the work of the General Electric Company. Compare the present attitude of the steel industry with that of a group of foreign wire makers, for instance. Their association has built an experimental plant, cooperatively owned by all the members. In this plant, they will manufacture a wide range of wire products, and every process will be studied and re-studied. Experiments will be made continuously to improve quality and manufacturing methods, reduce costs and develop scientific distribution methods. And the benefits will be for the use of the entire industry."

In short, Mr. Cheney believes in practical, constructive cooperation within every industry, and, within each industry, for each producer to stand on his own feet, on a foundation of knowledge of his own business and of conditions in his industry and trade.

"I have never yet found an argument against active cooperation which, on study, was not found to be just a lot of words," said Mr. Cheney; and, "There is no law against cooperation, and there is no law behind which to hide in dodging cooperation and its responsibilities."

Mr. Cheney has spoken to American Industry; not to the steel industry alone, by any means.

WANTS TO GET BACK SOUTH.

H. E. DECKMAN, of Pomona, Calif., in subscribing for the MANUFACTURERS RECORD, writes:

"I used to subscribe for your journal when I was in business in Florida, and am still interested in the South and want to return there some place just as soon as possible."

That is the spirit of people who leave the South but who long to return to it.

GREAT STRIDES MADE BY SOUTHERN TEXTILE MILLS IN PRODUCTION OF FINE AND SPECIALTY GOODS; ALSO IN MANUFACTURE OF TEXTILE MACHINERY.

"We are more or less frequently asked to explain why we have established in this section a plant with such diversified and complete facilities for the converting and dyeing of cotton and rayon yarns. In the few weeks since we commenced operations, we believe that our faith in the possibilities for rendering an important service to the mills and aiding in the textile development of the Piedmont section has been more than justified.

"After a most careful investigation a year ago, following an intimate acquaintance with conditions and mill activities in the south and north, extending over a period of more than 10 years, it was our conclusion that in the territory surrounding Charlotte within a radius of 50 or 100 miles we would eventually see the establishment of many mills making colored and so-called fancy fabrics, in addition to the many already manufacturing this class of goods, and here our services would be needed.

"In fact, it is the substantial volume of such fabrics already being made which provides the nucleus for the increasing number of skilled operatives needed to take care of the expansion, and this encouragement for new plants to locate in this region is just one more feature added to the fortunate ones of climatic conditions which are ideal, favorable taxes, economical fuel and power, low building costs, an ample supply of native born white labor, and the co-operation and enthusiastic support of the community business organizations."

These are the opening paragraphs of an article written by Edwin F. Jones for the Charlotte Sunday Observer in explaining why the Carolina Dyeing and Winding Company, of which Mr. Jones is president, located its plant at Mt. Holly, North Carolina.

Among the various factors determining the location he mentioned time, or the proximity to the New York market whereby buyers could make the trip to and from the plant in an overnight run, thereby losing no daylight time from business, and by which, also, mail, express and freight services of maximum speed were possible.

Mr. Jones discussed "three striking phases of development which have been taking place in the industry." They are, first, the strong tendency to the production of specialties of original design; second, the remarkable swing of popular taste away from sombre to bright and varied colors; and, third, the profound effect upon the cotton weaving industry of the development of the various synthetic yarns known as rayon.

The swift and unforeseeable changes that these developments are constantly bringing over the Southern industry has made spinning and weaving mills increasingly reluctant, Mr. Jones said, to invest in finishing departments that may shortly be rendered obsolete, and the large central finishing plant, equipped with the latest and best machinery and manned by a force of highly trained men, performs an increasingly important service.

But the extraordinary increase in the manufacture of fine and fancy goods in the South is not the only interesting development of which he speaks. Of great significance also, when it is remembered how completely the manufacture of all textile machinery was dominated by New England, is the following statement:

"The entire beam and package dyeing and drying machinery, and considerable of the equipment for handling chain and ball warp dyeing was manufactured by two concerns located within a few miles of Mount Holly."

Such equipment has been made in the South for several years, and we may confidently expect that its manufacture there is only the beginning of the production of all sorts of textile machinery in the heart of the rapidly-growing market for its use.

EUGENE LEVERING.

A GREAT business leader, for fifty years one of Baltimore's foremost bankers, a great educational and religious and philanthropic citizen, passed out of Baltimore's life last week when Eugene Levering died. Mr. Levering measured from every angle was a remarkable man. In early life he and his twin brother, Joshua Levering, became heavy importers of coffee, maintaining a large branch office in Brazil. At thirty-three, to his great surprise, he was elected president of the Bank of Commerce, a position which he held for forty-three years until that bank was consolidated with the Merchants National Bank, of which he became chairman of the Board, holding that position for seven years, or until he retired at the end of fifty years of banking life. His presidency of the Bank of Commerce did not, however, lessen his activities as an importer continuing his heavy coffee business until he and his brother decided to retire from the coffee trade.

Up to a few weeks before his death, at the age of eighty-two, Mr. Levering was more active in business and religious work than many a man of half that age. For sixty years or more he was regarded as one of Baltimore's greatest business leaders, and one of its greatest religious workers, giving with a liberal, indeed a lavish, hand for church activities and for mission work abroad and at home. His benefactions were almost without end and he often said that the more freely he gave to religious work the more he was enabled to give. Like Mr. Joshua Levering, who was once nominated by the Prohibition party for President of the United States, Mr. Levering was an ardent prohibitionist. In him were united many qualities rarely found in any one man and Baltimore and the country are the richer in all that makes for righteousness and for business because he lived and the poorer because he has passed on to what has been called God's Other World!

6000 NEGROES TO REGISTER IN SHELBY COUNTY, TENN., DEMOCRATIC PRIMARY.

CONFIRMING the statement made in the MANUFACTURERS RECORD a few weeks ago that the two dominant parties would eagerly compete for the negro vote not only in New York and in the debatable border States, but also in the South itself, is an interesting bit of news from Memphis. An editorial in the Memphis Commercial Appeal of July 29 had the following:

"* * * Mr. Stanton, chairman of the Shelby county primary board, has answered our question. We asked if the primary board would permit the machine to vote negroes in the white Democratic primary next Thursday.

"The machine voted 6000 negroes for its candidate two years ago in a white Democratic primary. There is every indication that the machine proposes to do the same thing next Thursday.

"Under the ruling of the primary board, negroes have a right to vote in the white Democratic primary * * * in Memphis and Shelby county."

It is an open and acknowledged fact that the Democratic party now seeks the negro vote in national elections as ardently as does the Republican party in Baltimore, in New York, in the West and, as shown in this Memphis situation, in many parts of the South.

PROFANE, BUT PATRIOTIC.

"I WILL be damned if I will stand for the Tammanyizing of the Government of the United States."—Former United States Senator Robert Latham Owen, Democrat.

A NEW DECLARATION OF INDEPENDENCE NEEDED

Reprinted from MANUFACTURERS RECORD, July 5, 1928

OVER 75 per cent of New York's population is of foreign stock, that is, born abroad or born of parents one or both of which were born abroad. Literally millions of them are alien in thought and in life to Americanism. And yet that is the element which through Tammany now seeks to dominate the South, and through the South the country. The boast is openly made that the control of the Democratic party has been wrested from the South and is now concentrated in the city of New York and under Tammany auspices.

If ever there was a time in the history of America when patriotic men and women were called to make a new declaration of independence, it is now. Some of our Democratic friends have freely said that they "would vote for the devil if nominated by the Democratic party," and doubtless some Republicans feel the same way with respect to their party. Such men put party allegiance before patriotism; party before country. It is time for these men and women, if they are patriots at heart, lovers of humanity and their country, to cast aside this kind of political affiliation and act upon their convictions, regardless of the fact that they may have to cut loose for the time from all their hitherto cherished political views.

"Give me liberty, or give me death," said the immortal Patrick Henry. The time is here when men and women should say: "Give me liberty from mental party slavery or give me death." The MANUFACTURERS RECORD pleads with the men and the women who love humanity, and who love the welfare of their country better than they love a political machine, and who honestly believe, as we do, that the election of Governor Smith, with his pronounced "wet" views—whether the "wet" question be regarded from the economic or the moral standpoint, or both—would be a disaster to this country. We would appeal to all who hold this view to stand by their convictions four-square to every wind that blows, and to vote as in the sight of God deep down in their hearts they pray. It will not do simply to refuse to vote. Patriotism demands that every man and woman shall vote. Failure to do so makes them recreant to their responsibility to this country and to all civilization. The man who does not vote is shirking his duty to his country.

Much has been made of the fact that Governor Smith is a selfmade man. Who in this country is not a selfmade man? The talk of anyone, whether he be Republican or Democrat, deserving the presidential office because of the fact that he is a selfmade man may be described as "the veriest bubble that ever found lodgment in an empty head." Millions of Americans are selfmade men; men who have come up through dire poverty and lack of opportunity to head the great business organizations of America, to be leaders at the bar and in the pulpit, and in all the other avenues of life.

We stand with Henry Ford in his recent announcement in this paper in hearty commendation of Prohibition as an economic, as well as a moral force, and that the law can be upheld.

We cannot believe that the South is willing to sell its soul to the alien element of New York and to permit Tammany, with all the rottenness of its history, to dominate not only the South, but America.

We have received so many requests for copies of the foregoing editorial that it has been reprinted in leaflet form. Copies of this leaflet for enclosing in an ordinary business envelope may be obtained at \$5.00 per thousand, or 60 cents per hundred, postage included. Send orders with check or money order to

MANUFACTURERS RECORD, Baltimore, Md.

The Economic and Industrial Development of the South.

By RICHARD H. EDMONDS.

[A paper prepared by the editor of the MANUFACTURERS RECORD to be presented at the round table conference of the Institute of Public Affairs at the University of Virginia, by request of Dr. Charles G. Maphis, Director of the Institute. This paper is intended merely as a broad sketch of the South's progress for those not already familiar with what this section is doing.]

In 1887 Hon. Wm. D. Kelly, then known as the Father of the House of Representatives by reason of the long tenure of his office, and sometimes known as Pig Iron Kelly by reason of his devotion to a tariff on pig iron, made a trip through the South to study its resources and advantages. Comparatively few men of Judge Kelly's position in the North at that time had undertaken to make a study of this situation. He became so deeply impressed with the South that in a letter to me he said, "The development of the South means the enrichment of the nation."

After visiting Western Carolina he wrote that "it is the most glorious land upon which my feet or eyes have ever rested."

After studying the mineral riches of Alabama he said: "The South is the coming El Dorado of American adventure. May the Almighty speed its onward progress."

And then a little later on after a careful study of the facts which he had gathered in the South he wrote a lengthy article in regard to the States south of the Ohio and east of the Mississippi and in it said:

"The States south of the Ohio and east of the Mississippi, with their 500,000 square miles of area, contain a wealth great enough for a continent—a wealth so vast, so varied in its elements and character, so advantageously placed for development, that these States alone can sustain a population far greater than the population of the United States today. * * * It was the building of an empire in the West that relieved and enriched the East as well as the West. The enormous energies, the 'plant' used in that task, unparalleled in the magnitude of the work and the greatness of the reward to all, is now seeking a new field of investment, and there is no spot on earth sufficient for it and within its reach but the South. * * * I do not consider that there ever existed in the West, great as its wealth is, nor in any other portion of the country, anything like the natural wealth of the South. A very large part of the South is blessed with a climate unexcelled, if equaled, elsewhere in the world. As to the mountainous region of the South, it is richer in natural wealth and in advantages for the development of that wealth, it has a finer climate, better water and higher conditions of health than any region of which I have any knowledge, and is, withal, one of the most beautiful regions of the world."

Shortly afterwards another distinguished Pennsylvanian, Col. A. K. McClure, then one of the foremost editors of America, in a letter from Birmingham said:

"We cannot war with destiny; we cannot efface the beneficent gifts of Him who leads the waters to the sea and sends them back in the dews and rains of Heaven. Alabama has been gifted far beyond even our boasted empire of Pennsylvania." And to that he added:

"A large portion of the great coal and iron products which enter competing centers will be supplied cheaper from Alabama than from any state in the North."

Abram S. Hewitt, one of the world's great metallurgists, who in 1857 had an option on the iron ore resources of the Birmingham district, and was only prevented from carrying out a very big development there by reason of the signs of the coming war, never lost his interest in the South in which from time to time he invested heavily. Writing of the South Mr. Hewitt said:

"The water powers of the South are upon a scale of grandeur unequaled elsewhere, and will in the future be all utilized for productive industry. There is no corresponding region on this habitable globe which has so many advantages

as the South, all available by natural or artificial communication, and capable of more economical operation than in any other part of the country. * * * If it is acted upon the South will become the garden of the world."

Frederick Taylor, one of the first of New York's leading bankers years ago to sing the praises of the South, wrote:

"The country through which we traveled was varied and in many respects beautiful; its valleys fair as the vale of Cashmere, its mountain scenery wild at times as the Alps. * * * To any young man of today of pluck and grit, with the world before him and his fortune to make, I should say 'Go South, young man, Go South!'"

Hundreds of other expressions equally strong in regard to the future of the South, made by men of affairs many years ago, could be added to what I have here quoted. Has the South fulfilled the expectations of these enthusiastic, hard headed, thoughtful business men as they looked to its future? Has the South fulfilled their predictions up to the present time? And what does the future seem to hold in store for this section?

Judge Kelly's enthusiastic praise of the half million square miles south of Ohio and east of the Mississippi through which he had traveled, could be duplicated in the territory beyond the Mississippi, in Texas, in Arkansas, in Oklahoma. Here is another region of nearly half a million square miles, with resources and advantages equally as boundless as those so vividly portrayed by Judge Kelly as to the upper or eastern half of the South.

Predictions of These Men of Prophetic Vision More Than Realized.

In attempting to discuss or outline some of the evidences of the progress which the South has made since these predictions were put forth, it is almost impossible to present actual facts without running the risk of causing surprise to those who are not already familiar with what the South is doing in material and educational advancement. The prediction which I have quoted in regard to Alabama's iron and steel supremacy is already finding fulfilment in the fact that the Alabama plant of the U. S. Steel Corporation is shipping its product to many foreign lands in ships built by a subsidiary of the company at Mobile, out of steel produced at Birmingham. With over \$100,000,000 invested in that plant, Judge Gary shortly before his death referred to it as one of the greatest steel plants in the world.

It is an interesting and startling fact that when the Steel Corporation purchased the Tennessee Coal, Iron & Railroad Company—which, however, had no plants in Tennessee, all having been previously concentrated in Alabama—it bought more iron ore in Alabama than the Steel Corporation owned when it was first organized, and several times as much coal as the company then owned. Projected as a vast billion dollar corporation, the greatest steel organization in the world, that company by its Alabama purchase secured far more ore and coal, as I have just said, than it owned when it was first organized. Later on it bought considerable coal land in West Virginia, and large iron ore properties in the Lake Superior district.

Another Alabama steel plant, the Gulf States Steel Co.,

also sends its products into foreign lands to a large extent.

In the early days of the iron industry in that state nearly all of the pig iron produced had to find a market in the North and West. Now the diversified iron consuming interests of the South take about 85 per cent of the entire pig iron output of the Alabama district.

In the early days of the industry it was constantly proclaimed in the iron centers of Pennsylvania that the South could never compete in quality with the iron of other sections. That theory was abandoned many years ago.

It was then proclaimed that the South could never make steel. It is now admitted that finer steel is not made anywhere in the country than is being produced in the South.

A year or two ago when all other steel plants in the country were running on a basis of 50 per cent capacity, the Alabama plant of the Steel Corporation was running on a full 100 per cent, working night and day, to take care of its trade.

The South is already the leading producer of the country of iron pipe for water works, gas works, and kindred operations; the town of Anniston in Alabama alone having some nine big pipe-making plants. Other diversified iron interests are rapidly increasing the home demand for pig iron to such an extent that the time is not distant when the South will have to build more furnaces to make sufficient iron for its own diversified industries. Southern-made steel is going heavily into building operations of many kinds, and Southern-made pipe is carrying the oil and the natural gas of the South, in the aggregate many thousands of miles, piping them from the oil and gas producing centers to great consuming centers. The oil is piped many thousands of miles in the aggregate to the refineries on the coast, while the gas is piped to large consuming markets.

Nation-Wide Utilization of Southern Resources and Products.

As a by-product of this natural gas industry, of which the South produces 65 per cent and consumes 56 per cent of the country's output, carbon black is made in Louisiana and Texas to the extent of about 85 per cent of the total produced in the country, and a distinguished chemist recently said that the carbon black of these states had doubled the life of every automobile tire in the United States. Thus every man who drives an automobile or a truck where carbon black has entered into the construction of tires should pay tribute to the fact that the long life of the tires of today is due to the work of Louisiana and Texas.

And speaking of Texas, one is reminded of the fact that that one state produces 85 per cent of all the sulphur used in the world, and practically the entire output of the United States. Sulphuric acid, an essential chemical in a thousand and one different operations, is in this country practically dependent upon Texas for its sulphur supply.

Sixty-three per cent of the total oil production of the country, from which we draw our gasoline supply, our petroleum and many other products, is produced in the South. Indeed, the section yields about 44 per cent of the total oil production of the world.

The prediction of Mr. Hewitt that all of the water powers would be utilized for industry, is finding rapid fulfilment. All over the South hydro-electric developments are proceeding with amazing rapidity, and yet the demand for power grows more rapidly than these companies have been capable of producing. They plan ahead for five or six years, and constantly find that the demand grows far more rapidly than their estimates had indicated. Not only are these water powers being utilized to an extent scarcely dreamed of, even by Mr. Hewitt, but to these hydro-electric powers should be added the rapid development of electric light and power companies using oil or powdered lignite. The supply of lignite

in the Southwest is almost without limit. Billions of tons are available, and now that the feasibility of mining and using lignite profitably has been demonstrated there has been added to the South's fuel supply an available source the extent of which it is almost impossible to calculate. Last year more than half of the electric power, amounting to 16,329,318,000 kilowatt hours, of Southern Public Utilities was produced by fuels.

The production of oil and the vast stores of gas, greater in quantity and in area than are known elsewhere in the world, add enormously to the sources of fuel available in the South.

Of high grade coal the South has about 100,000 square miles, or more than twice as much as all of Europe including Russia, and about six times as much as all of Europe excluding Russia.

It has iron ore in keeping in extent with its coal.

Its marbles and granites, its clays and other mineral resources furnish the basis for development in practically every line of industry. Experts claim that Georgia, alone, has enough clay to supply the world, at the present rate of consumption, for a thousand years. Other Southern states are probably equally as well blessed. Practically all the bauxite produced in this country and which goes into the manufacture of aluminum, comes from the South, Arkansas alone supplying 90 per cent of the total mined in America.

Investigations in Texas, and elsewhere, indicate the possibility of developing a potash manufacturing industry fully able to meet all of our needs for potash, and thus make us independent of European supplies.

Once thought to have a limited supply of manganese, recent investigations prove that this country, and especially the South, has far greater manganese resources than were formerly known.

Graphite, an essential raw material in industry, is found in Alabama especially, of the highest grade, and in quantity abundantly equal to meet all the needs of our American industry whenever there is a fair degree of protection afforded in competition with foreign graphite.

Georgia granite is being used in the building of a 750-mile highway in Cuba which will represent a cost of \$75,000,000 or more. Georgia and Carolina granite are being used in a great memorial bridge across the Potomac River. Texas granite is forcing its way into New York City in competition with the granites of New England. Marble from Alabama, Tennessee, Georgia and Maryland is going into great business structures all over the country east of the Rocky Mountains. Southern made brick were used in the construction of what some regard as the most architecturally perfect hotel in Atlantic City, and 10,000,000 brick were last year bought in Virginia for use in New York, and Southern brick are even shipped as far west as St. Paul.

But to attempt to enumerate the ways in which Southern materials are going into practically every form of activity would be an endless task.

A Virginia shipyard has been building the largest passenger ships ever constructed in the United States and with such perfect satisfaction to the International Mercantile Marine Co., the owner of these ships, that that company has recently let a contract for the third addition to its great fleet. The spirit of the South was superbly illustrated by this one shipbuilding concern after the Disarmament Conference when naval vessels, to the building of which it had been largely devoted, were scrapped and plans for building other war vessels were discontinued. This company immediately turned its vast plant into the building of cars and machinery of various kinds and kept in successful operation until the tide turned for more ships and then it was prepared to build the giant vessels to which I have referred. In the meantime, the oldest shipyard in Philadelphia, which had been in operation for nearly a hundred years and which had been the boast of

that city, was permitted to cease operations, dismantle its yard and go entirely out of business.

The South produces the entire naval stores output of this country, the bulk of its commercial fertilizer, over 40 per cent of its lead and zinc, and its furniture factories have made one North Carolina town the rival of Grand Rapids, and probably destined in the near future to surpass Grand Rapids, in the extent of its output.

The Nation Is Being Fed by the Progress in Diversified Agriculture of the South.

The leading milk and cheese-making industries of the country are rapidly turning their operations to the South and establishing great milk plants and cheese factories, and are looking to the South as the future center of the dairy industry of the United States.

This section is also becoming the orchard and the winter garden of the entire country. Florida alone ships of citrus fruits and winter vegetables to the North and West nearly 100,000 carloads annually, and the South as a whole over 300,000 carloads a year. Every State, from Virginia to Texas, has been rapidly developing, of recent years, its fruit and vegetable-growing industry, shipping in the aggregate hundreds of thousands of carloads to other parts of the country. Including cottonseed oil products, an essential factor in the food supply of the nation, the South is now annually shipping \$500,000,000 worth of food stuffs to feed the North and West. It seems to be impossible to set a limit to the utilization and resources of the South.

This section, under better systems of cultivation which are now being rapidly developed, can increase its agricultural output to a greater extent than the entire farm product of the United States at present.

It can carry forward its industrial development to an extent that will make it the outstanding manufacturing center of America.

Blessed with a large number of ports, it is rapidly increasing its foreign trade and every year the exports of Western products through Southern ports is steadily gaining. Texas ranks next to New York State in the value of exports produced. North Carolina ranks third in the union in the amount of taxes paid to the Federal Government with a total of \$225,316,000 or \$54,000,000 more than the combined Federal taxes of the New England States.

The Rapid Movement of Capital and Industry From Other Sections to the South.

Twenty-five or thirty years ago it was seriously questioned among economists and business men in this country as to whether the South could successfully compete with New England in the manufacture of cotton goods.

New England people, with rare exceptions, really believed that it could not do so. Some Southern men, not fully understanding the situation, felt the same way. But today it is freely admitted that the control of the cotton-mill industry has already definitely passed to the South, and New England mills are apparently vying one with the other as to which one can make the quickest journey in getting established South. Within the last four years a large number of prosperous Southern mills have been bought by New England concerns. One notable purchase was of a mill operating for more than forty years by South Carolinians and with South Carolina capital, having an investment of \$3,000,000 in its capital stock, which was sold to leading New England mill men for \$9,000,000. Many other important mills have within that time passed from Southern ownership to New England ownership.

During the same period many of the great mill concerns of the East, instead of buying Southern mills, have estab-

lished new mills in the South, and in the purchase of mills and the building of new ones over \$100,000,000 of Eastern money has been put into this industry in the South in the last four years.

Over \$1,100,000,000 of capital is invested in Southern cotton mills, and it is generally estimated, and probably conservatively so, that at least 80 per cent. of this capital is owned by the people of the South. The industry, therefore, is still Southern from ownership and from the managerial standpoint, and operated almost wholly by Southern-born employees.

It is barely possible that the closing of many New England mills may result in a movement of mill employees from New England to the South; but as these employees are to a very large extent people of foreign birth, mainly from Southern Europe or French Canada, it will be very unfortunate if they should be brought into the South. It is largely to escape this class of mill employees and to get away from their domination of the situation that New England mill people have been transferring their interests to the South.

An investigator of New England mill conditions two years ago asked the superintendent of a big mill if he had any trouble with strikes. In reply he said that he did not, because he had 17 nationalities represented in his mill, and that none of them could speak the language of any nationality except his own, and that, therefore, they could never get together for a strike.

I would not for a moment mean to indicate the thought that New England itself is on the down grade. On the contrary, as one industry after another is transferred from that section to the South new industries will be created to give employment to the skilled labor of that section. There is too much virility in the people of New England to lose out in the final roundup of a matter of this kind. Where they lose one industry they will create another.

The South now has 18,225,000 cotton spindles out of a total of 36,696,000 spindles in the United States.

Twenty years ago Southern mills consumed 2,529,000 bales of cotton, and all other mills 2,270,000 bales. Last year the Southern mills consumed 5,475,000 bales, and all other mills in the United States consumed of Southern grown cotton only 2,520,000 bales. The South produces over 62 per cent. of the domestic cotton goods.

These figures briefly tell the story of the cotton industry as to its magnitude, but they do not cover the diversification of the cotton mill business, the rapid increase in knit goods plants, the rapid growth in the production of the finer grades of goods which it was once thought the South could never manufacture, but which are now being turned out in ever-increasing quantity.

The Rayon and Paper-Making Industry Centering in the South.

More striking, however, than this rapid development of cotton manufacturing in the South is the growth of the rayon industry, a new business of the last few years, a creation of the chemist. The rayon industry seems to be permanently centered in the South. Within the last few years a large number of rayon mills, some employing from 3,000 to 4,000 hands each, have been erected in this section, and mills now under contract for construction or additions to the mills already in operation, represent an investment in the Southern rayon industry of upwards of \$100,000,000. The Du Ponts with their vast organization have an enormous rayon plant at Nashville, and they are contracting for one to cost \$10,000,000, near Richmond, and are planning to build another of equal capacity also in Virginia. Western and New York interests have let some of the contracts for a \$10,000,000 rayon plant at Coving-

ton, Va. Foreign interests are building a \$4,000,000 plant in Georgia, and plants representing several times that amount in Tennessee, with many negotiations now under way for other rayon plants.

The paper industry is headed southward in its march of progress. It is being moved to that section where raw material can be reproduced much more rapidly than in any other part of the United States or Canada. Long growing seasons make it possible for the reproduction of forests much more rapidly than in other sections, and the South can create a permanent forest supply sufficient to meet the ever-expanding needs of the paper industry.

Two paper mills, each costing over \$5,000,000, are now being built in the South by leading paper manufacturers of other sections. One company, it is reported, has secured a sufficient amount of timber land to enable it by reforestation to provide itself practically for all time to come with an abundant supply of raw material. By virtue of the South's advantages for paper-making it is as certain that this industry will center in the South as it is that the rayon and the cotton mill industries have already been centered in this section.

In a study of the unlimited advantages of the South it is well to bear in mind one factor not generally understood, but worthy of careful study. In the central and lower South there is a difference of from 50 minutes to an hour in favor of the South in winter in the matter of daylight, as compared with the Northern and Northwestern States; while in the summer there is an equal difference of shorter sunlight in favor of the South. Thus, in winter when daylight is needed, the central and lower South has a decided advantage over the North and West, while in summer the South has a shorter sunlight time, and thus has more of darkness for rest and sleep.

A New Epoch Created by Electric Power in Industry and Agriculture.

The development of electric power throughout the South is bringing about an entirely new epoch, not only as relates to industry and agriculture in the South, but as to the country at large. When manufacturing could be conducted only by the use of steam power small industries could not be operated profitably except in unusual situations. With electric power available, which can be turned on or off at any moment, it is now profitable to establish small industries in hundreds of places where they could not without electricity have survived.

The result of this is a shifting or relocation of industry. Faced by labor conditions in the North and the congestion of traffic and of business, many concerns in the East are either moving their plants bodily to the South, or establishing there branch plants, and here and there are being created all over the South smaller industries which would never have been feasible under steam-power conditions. This will bring about the establishment of many plants in the smaller towns and villages of the South to the very great advantage of these communities and of the industries themselves. A market for local products of the farm, of raw materials for the factory, and a market for the brawn and the brains of the people in these communities and in the surrounding territory will be created. A far healthier condition for industry will thus be brought about, and many a small town will be rejuvenated and made the centre of employment and of prosperity for the surrounding farmers by the extension of electric light and electric power.

Electricity will also do much for the agricultural interests. It is already being used to great advantage on many farms,

and its use will gradually be extended to such an extent as to lighten the burden of farm life on thousands of farms where drudgery now existing bears very heavily, especially upon the women. Tractors are taking the place of horses and mules in many parts of the South. Improved machinery of all kinds is meeting an ever-increasing demand. The automobile has revolutionized country life. The South now has about as many motor vehicles as were in the entire United States 10 years ago. Good roads have lifted from the backs of farmers and their families the burden of intolerable mud or deep sand. Highway construction, into which the South is now putting nearly \$400,000,000 a year, is completely revolutionizing the relation between city life and country life.

The industrial development in progress throughout the South, so rapid that it is now creating nation-wide interest, means a larger market for the products of the farm and greater diversification of agriculture, and the creation of new sources of employment for Southern boys and girls as they grow into manhood and womanhood. Every factory built, every mine opened, every advance step in the industrialization of the South becomes, therefore, of supreme importance to the farmers of this section. They are the ones who have most at stake. They are the ones who will receive the greatest benefit from this movement which is destined to make the South the greatest centre of industrial activity in America.

The population of the South is at the present time a little over 40,000,000, as compared with 75,994,000 for the United States in 1900; but the expenditures for public schools by the Southern States in 1926 amounted to \$426,000,000, or almost exactly twice as much as the public school expenditures of the United States in 1900.

Rapid progress has been made in the development of life insurance business in the South. The assets of the companies now located in the Southern States are over \$696,692,000 and the total insurance in force held by these Southern companies is over \$6,590,000,000. New business written during 1927 amounted to nearly \$2,450,000,000.

The aggregate amount of life insurance in the South held by all companies was over \$16,736,000,000 last year. Southern people now carry \$332,000,000 more life insurance than the people of the entire United States carried in 1910.

The highway expenditures in the South in 1927 amounted to \$390,899,000, or nearly eight times as much as the highway expenditures of the United States in 1900.

The total value of the manufactured products of the South in 1925 amounted to \$10,372,000,000, which was only \$1,000,000,000 short of the total amount of manufactured products of the United States in 1900.

The output of cotton goods in the South is now valued at \$1,000,000,000 a year, as compared with \$339,000,000 for the United States in 1900.

The South is now mining considerably more coal than the United States mined in 1900. The value of its mineral products is twice as great as that of the country in 1900. Its farm products in 1927 exceeded in value by \$955,000,000 the farm products of the whole country in 1900. Its export trade is now running far ahead of that of the United States in 1900, and its banking resources in 1927 amounted to \$10,123,000,000, as compared with \$10,785,000,000 for the country in 1900. Its bank deposits in 1927 were in excess of the total bank deposits of the United States in 1900.

These are but a few of the outstanding facts, and hundreds of others of equal importance could be given to show that this section is fulfilling the predictions of the great national leaders of the country who forty or more years

ago were visualizing the possibilities of the South and forecasting its boundless future prosperity.

Abram S. Hewitt was right when he said "there is no corresponding region on this habitable globe which has so many advantages as has the South." Judge Kelly was right when he said "the South is the coming El Dorado of American adventure." A. K. McClure, Philadelphia's statesman and editor, was right when he warned Pennsylvania and the rest of the country that "it is useless to war with destiny and against Southern advancement." Frederick Taylor, one of New York's great bankers, was right when he said that wherever he traveled through the South he heard "the whirl of the spindle, the roar of the furnace, the throb of the locomotive," and urged the young people of the country to go South.

The South of Today and the Future Can Only Be Appreciated by Knowing Its Inherited Business Abilities From the Mighty Men of the Old South.

If we would rightly understand the progress which is under way in the South, we must get some background from which to view the situation. That can only be had by the study of the people of the old South. Among the greatest business leaders which America has ever produced were many men who were dominant in Southern affairs prior to 1860. They were giants in business, great scientists, men with a world vision and a world knowledge of affairs. Their influence was worldwide.

Mathew Maury of Virginia was the greatest scientist of the sea that the world has produced, and Europe bestowed on him more honors and medals than had ever been given to any other American. McCormick, the inventor of the reaper, a Virginian by birth, revolutionized the growing of wheat in this and all other countries, made possible the opening up of the Western prairies to civilization and wheat growing, and made possible the feeding of the world's rapidly increasing population, for under old conditions a sufficient amount of wheat could not have been raised to meet the world's hunger with its expanding population.

There is scarcely an important railroad in the South that was not projected long before 1860, for no sooner was the locomotive invented than Southern people turned with eagerness to the building of railroads, leading the country in the first 100-mile railroad in the world.

Across the Atlantic a Southern steamship, owned by Southern men, sailing from a Southern port, was the first steam vessel that ever heralded the new era in the world. So amazed were English people when they saw this steamer approaching with smoke pouring out of the funnel, that they thought it was a ship on fire and sent out rescue parties to try to save the seamen.

The first locomotive ever built for an American railroad was built in New York State for a South Carolina road. It was rightly named "The Best Friend," indicative of the feeling that Southern people then had for the revolutionizing power that had come into the world with the creation of railroads. Disturbed one day by the escaping steam, the negro fireman tied down the safety valve. In the explosion the negro disappeared, for his remains could not be gathered; but the locomotive was patched up and rebuilt and did its appointed service.

Long prior to the Revolution leading men in the South concentrated their work largely upon industrial development. In his "History of Iron in All Ages" James M. Swank paid high tribute to the first settlers in Maryland, Virginia, the Carolinas, Tennessee, Alabama and Georgia. He reports that throughout that region many charcoal furnaces and bloomeries were established, and adds: "The people who built these furnaces and bloomeries were not

only bold and enterprising, but they appear to have been born with a genius for iron-making. No States in the Union have shown in their early history more intelligent appreciation of the value of an iron industry than North Carolina and Tennessee, and none have been more prompt to establish it."

It is well known, of course, that as early as 1716 a number of iron-making enterprises were established in Virginia, and in 1727 the General Assembly of that State passed "an act for encouraging adventures in ironworks."

"No State in the Union," said Swank, "gave more attention to domestic manufactures at the close of the Revolution than Virginia. Lynchburg, Winchester, Staunton and other places became noted for the extent and variety of their manufactures." Similar conditions prevailed in South Carolina, which at the beginning of the Revolution offered liberal premiums to all who would establish ironworks. A number of iron industries were created in South Carolina, and a large number in North Carolina in those early days, and shortly after the Revolution.

In 1800 the cotton crop of the South was 80,000 bales. The invention of the cotton gin resulted in turning the thought of the people of the South to cotton-growing, as the world was hungry for cotton, and from 1800 to 1839 paid a fraction over 17c. a pound on the average, prices ranging in the early part of that period as high as 44c. a pound. Between 1800 and 1860 the cotton-growing interests of the South developed so rapidly that more capital was invested in cotton-growing in 1860 than in the entire manufacturing business of the United States. D. A. Tompkins, one of the foremost business leaders that the South ever produced, in his various publications on cotton claimed that this was the greatest business achievement in this country between 1800 and 1860.

When the heavy decline took place in cotton about 1842-43, continuing for nearly a whole decade, the thought of the South turned again with increasing intensity to industrial and railroad development, and remarkable progress was made during the decade of 1850 to 1860. During that period the South constructed 7562 miles of railroad as compared with 4712 miles by the New England and Middle States combined.

The present generation of Southern people was born with this inherited trait of business ability and industrial spirit.

Its People Are the South's Greatest Resource.

The greatest resource of the South—greater than all of its coal and iron and water powers—is the inherited strength of character, manhood and womanhood, managerial ability and industrial traits of Southern people. Here is its greatest asset. Here is an asset which is being utilized to turn its hitherto latent wealth in raw materials into active, creative work and almost boundless wealth. Here are the forces that are rapidly advancing the educational interests of this section. The South has gladly welcomed from other sections many men of ability, of engineering skill, and of capital, to take part in its development, but primarily the progress of the South has been made by men of Southern birth and Southern-born energy and business ability. In this rebirth of the South there has not been created a New South. That term, so far as I can learn, was first used as the name of a paper published by Union soldiers in Port Royal, S. C., during the Civil War. The South of today is merely a renaissance of the wonderful old South, whose achievements history will record as among the greatest in all human affairs.

It is impossible adequately to appreciate the South's progress in material and educational affairs without some understanding of the terrific loss which the South suffered during the war of 1861-65, the death or invalidism of many

tens of thousands of its foremost men, the disorganization of its labor systems and the overwhelming poverty which rested like a great pall upon the South after 1865. Until President Hayes in 1876 withdrew the troops from the South, ending Reconstruction Days, this section had to endure for four years the horrors of war and then the reign of terror which prevailed for the next ten or twelve years. So great was the poverty of the South, so hopeless did the outlook seem to be for employment, that between 1865 and 1900 5,000,000 Southern-born whites left the Central South from Virginia to Louisiana, about 3,500,000 going into the North and West and becoming in many cases outstanding business leaders. About 1,500,000 went into Texas and the Southwest, and thus this section, drained by war, drained by Reconstruction, and to a still greater extent drained by this enormous migration, had to face conditions far different from those which any country in Europe had to meet after the World War except, perhaps, Russia; and in some respects even that country has hardly had to endure as much poverty and suffering as the South had to face and overcome.

Southward the Star of Empire Takes Its Way.

The South has put all of these things behind it. It is now the focusing point for the investment and development forces of America. It has accumulated capital and no longer has to stand, hat in hand, as for many years, begging for outside financial help. Regnant optimism rules throughout the South, and equal optimism rules throughout the North and West as to the future of the South. Judge Kelly was right when he said "the development of the South means the enrichment of the nation." He was thinking not merely in terms of material advancement for the country, but of a broader spirit of nationalism, the commingling of the people of all sections, and diversification in thought as well as in business activities; for vitally important as diversified agriculture is to the South, it is no more important than diversified thinking of its people.

Southward the star of human achievement in education, in religious advancement, and in material prosperity takes its way.

\$4,000,000 of Kentucky Coal Properties Merged.

Ashland, Ky.—The Utilities Elkhorn Coal Company, capitalized at \$1,700,000, has been organized to consolidate coal properties in Knott, Pike and Floyd counties, Kentucky, valued at \$4,000,000 and including 7 going operations and two undeveloped leases, all in the Elkhorn fields. The properties are mines 1, 2, 3, 4 and 5 of the Beaver Mining Company, the Rogers Elkhorn mine and the mine of the Furnace Coal Mining Company, Ashland. The merger was promoted by Ben F. Tate, president of the United Collieries, Inc., Cincinnati.

\$2,000,000 Campaign on for Baylor University.

Waco, Tex.—Plans have been arranged by a State-wide committee of 100, of which D. K. Martin, San Antonio, is president, for a campaign until November 23 to raise \$2,000,000 in the State for Baylor University at Waco and Baylor Medical College at Dallas. The campaign will get under way at once, plans calling for the organization of the State into 15 district groupings, with each city of 15,000 or more population to be organized. Dr. Charles Stelzle, New York, will map out a publicity campaign. The \$2,000,000 expected to be contributed in the State at large will be matched by \$1,000,000 each from Waco and Dallas, funds to be used to pay the debts of the institutions, provide new buildings at both Waco and Dallas, and to create an endowment for the schools. Dr. S. P. Brookes is president of Baylor University.

A Bright Spot in Life.

Daniel Jeffrey & Sons.

Jeanerette, La., July 25.

Editor Manufacturers Record:

We have been reading your articles pertaining to conditions existing throughout the mill sections of the South in the various home communities surrounding these sections, and the attached article taken from the Iron Age of July 19 praising the conditions as found, appeals to us, as it virtually substantiates the splendid stand you have taken on this question.

The MANUFACTURERS RECORD is one of the bright spots in our life each week. We wish to take this opportunity to commend you on your stand on the several important questions facing the South today, and particularly express our appreciation for the many clear-cut articles in favor of a tariff for the protection of our industries, and consequently the perpetuation of the high standards of living enjoyed in our country.

N. P. JEFFREY, Secretary.

[The Iron Age editorial appears elsewhere in this issue.—
Editor MANUFACTURERS RECORD.]

Seek Higher Tariff on Peanuts.

Arguments in support of their plea for a higher rate of duty on peanuts were presented to the Federal Tariff Commission by a group of approximately 80 North Carolina citizens, headed by Albert Gwantley, Surry, president of the Peanut Growers Association; John Lawrence, Coleraine, director of Bertie county; J. Wise Worsham, Norfolk, general manager of the association; H. J. Vann, director for Hertford county, and Charles Shields, director for Halifax county. Many growers from other States also were present. Peanuts grown in China by near-pauper labor are offered in Norfolk and Suffolk, Va., at lower prices than American peanuts, said the speakers. Over 200,000 acres was devoted to peanuts in North Carolina last year and the value of the American industry in 1925 was placed at \$20,000,000. Four and a half cents a pound unshelled and six cents shelled is asked by the American peanut growers, as against three cents and four cents, respectively, at present.

\$638,000 Contract for St. Lucie Inlet.

Stuart, Fla.—The St. Lucie Inlet Commission has awarded contract to the Arundel Corporation, Baltimore, at \$638,000, for dredging St. Lucie inlet at the entrance to the port at Stuart. Work has begun on the project and will be pushed as rapidly as possible. A channel 18 feet deep and 200 feet wide at the bottom will be dredged from deep water in the ocean to a line connecting the land points at the inlet, and thence 150 feet to the terminal site. The work will be under the supervision of Lieut.-Col. Gilbert A. Youngberg, United States District Engineer, Jacksonville, and A. L. Brunson, principal field assistant.

25,000-Horsepower Hydro-Electric Project Planned.

The Federal Power Commission has issued a preliminary permit to the Gasconade River Power Company, Kansas City, Mo., for the construction of an hydro-electric power dam about 95 feet high, with appurtenant structures, on the Gasconade River, near Rich Fountain, Mo. The plant will probably have an installed capacity of 25,000 horsepower.

The Greenwood County Highway Commission, Greenwood, S. C., authorized the sale August 21 of \$250,000 road bonds under the State reimbursement agreement, for the construction of all-weather roads in the county to be incorporated in the state highway system.

The Mammoth Power Development Under Way on Saluda River.

[Special Correspondence Manufacturers Record.]

Columbia, S. C., July 30.

Sixteen locomotives, 102 dump cars, eight steam shovels, three cranes and three 60 horsepower tractors are working night and day on the Saluda River hydro-electric development, on the Saluda River, ten miles west of Columbia, S. C., in building the largest earthen dam in the world for hydro-electric purposes.

For ten months now engineers and contractors of the Lexington Water Power Company's development have concentrated their efforts in the diversion area, preparing the site and placing large steel pipes and a concrete arch conduit, which will be temporarily used in diverting the water from the Saluda River so that earth fill can be thrown across the stream and work started in earnest in building the dam, the height of which will be 208 feet, length about one and one-half miles, and thickness of the base about one-quarter of a mile at the largest cross section.

Earth excavation in the diversion area for conduits, surge tanks and intake towers is now 100 per cent complete and has amounted to 275,300 cubic yards. Rock excavation for the conduits, surge tanks and intake towers is also 100 per cent complete and has amounted to 33,500 cubic yards.

The four steel pipe conduits, which serve as penstocks for the power house, have all been placed. An arch conduit, 48 feet in diameter and of sufficient size to later permit two additional water wheel units to be connected to it of a size at least equal to those to be initially installed, is also practically completed.

The four steel pipe conduits are 100 per cent riveted. The internal bracing preparatory to placing concrete cover is 100 per cent complete. The erection scheme involved is the use of a locomotive crane on a standard gage track parallel to conduits. Compressed air was furnished from a battery of five air compressors, each with a capacity of 350 cubic feet per minute. The length of each of these pipes is 986 feet, making the combined length 3944 feet. Each pipe is 16 feet

in diameter, and consists of 129 rings, 7 feet 11 $\frac{3}{4}$ inches long. The total number of rivets placed in the pipes is 220,000.

Work was recently started on the five intake towers, each of which will have a height of 230 feet. Four of the towers will be 30 feet in diameter and each will be connected to a 16-foot steel pipe. There will be two 9 by 14 feet steel gates installed in each of these intake towers to provide means for shutting the water to the turbines off as desired, while the fifth tower, which will be 40 feet in diameter will be connected to the arch conduit; this tower will have six 10 by 10 feet steel gates.

The function of the intake towers is to provide a structure in which to erect the gates and trash racks. The trash racks will be used as a means to prevent refuse and debris from going through into the turbines. The structural steel in the intake towers is being erected just ahead of the concrete work, and this work is about 32 per cent complete. Approximately 380 tons of this steel has already been erected and the eight frames and gates in the four intakes to the steel pipe conduits are completely erected. The total weight of the frames and gates in the four towers is 183 tons.

The output of the concrete plant at the dam is at present about 800 cubic yards per working day, which consists of two 10-hour shifts. Class B concrete in arch conduit, around steel pipe conduits and in retaining walls and cradles on which pipe is erected, is 70 per cent complete and has amounted to about 44,135 cubic yards. Class A concrete in intake towers of arch conduit and steel pipe conduits, is seven per cent complete. Reinforcing steel for use with Class A concrete is being put in. This work is about six per cent complete, approximately 65,590 pounds having already been placed.

The earth fill in the dam is 6.2 per cent complete. Approximately 686,000 cubic yards of dirt have been placed. About half of the equipment is now on the job and the daily rate



VIEW OF DIVISION AREA BEFORE LARGE STEEL PIPES AND ARCH CONDUIT WERE COMPLETED.

of two 10-hour shifts is some 10,000 cubic yards. Standard gage equipment is used throughout, but at the present time placing material is limited by short dumps. As soon as diversion of the Saluda River has taken place and the length of fill on which dumping of material is to be done is increased, the daily rate of placement will be well over 20,000 cubic yards.

The present excavating equipment in active use consists of four $1\frac{3}{4}$ -yard shovels, one $2\frac{1}{2}$ -yard shovel, two 4-yard shovels and one 1-yard shovel.

Clearing and preparing the area to be covered by the dam is about 84 per cent complete and amounts to 75 acres.

The mammoth dam will contain 11,000,000 cubic yards of earth and will be of the type known as semi-hydraulic fill, in which the middle third of the dam will be formed by washing in fine earth to form the core. Stripping of soil



INTERIOR OF ARCH CONDUIT LOOKING TOWARD
OUTLET END.

from this middle third is about 47.5 per cent complete and amounts to 47,500 cubic yards. The core trench excavation has just begun.

A great amount of clearing work has been and is yet to be done in the reservoir. So far about 20,000 acres have been cut and piled. Some 6700 acres have been entirely cleared. The percentage of the work done is estimated at 42 per cent.

The project is expected to be completed during the fall of 1930. Then the dam will impound the water forming a lake 40 miles long and 14 miles wide at its widest point. The lake, a great inland sea, will cover 76 square miles and will contain 750 billion gallons of water, requiring approximately 10 months to fill it in a year of average stream flow.

The power house to be built in connection with this development will have an initial capacity of 175,000 horsepower and an ultimate capacity of at least 260,000 horsepower. The annual output will be about 360,000,000 kilowatt-hours.

This development is being built by the General Gas and Electric Corporation for a subsidiary, the Lexington Water Power Company. All of the clearing work is being done by W. S. Barstow & Co., Inc., financial and operating managers of the General Gas and Electric Corporation's properties. The power house will be built by the Barstow engineers, work to be started in time for it to be completed by the time the dam is finished.

The supervisory engineers of the development are Murray & Flood of New York. The Arundel Corporation, Baltimore, has sublet the contract for the construction of the dam from W. S. Barstow & Co., Inc. Albert S. Crane, New York, is the consulting hydraulic engineer on the development. McDonald-Spencer Slipform Company have a sub-contract from

the Arundel Corporation for erecting the intake towers from elevation 211.

Contracts for the generating station equipment, including induction motors, main transformers, cam switches and limit switches, have been awarded to the General Electric Company, Schenectady, N. Y. The generators will be supplied by the Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., and the turbines and main pivot valves by the S. Morgan Smith Company, York, Pa.

The following contracts so far have been awarded:

Air vent pipes—W. K. Mitchell & Co., Inc., Philadelphia.
By-pass discharge piping—National Valve and Manufacturing Company, Pittsburgh.
Cam switches, limit switches and electric motors—General Electric Company, Schenectady, N. Y.
Construction of earth dam—Arundel Corporation, Baltimore, Md.
Fabrication and erection of steel pipes—The Reeves Brothers Company, Birmingham, Ala.
Gate valves—Chapman Valve Manufacturing Company, Philadelphia.
Gates and hoisting equipment, and steel pipe linings for water passages—Phillips & Davis Manufacturing Company, Kenton, Ohio.
Miscellaneous iron and steel—Carolina Steel and Iron Company, Greensboro, N. C.
Miscellaneous steel pipe, bolts and gaskets—Benjamin F. Shaw Company, Wilmington, Del.
Protective material for miscellaneous steel—Philadelphia branch of Detroit Graphite Company, Detroit, Mich.
Protective materials for steel—Walle, Dove, Hermiston Corporation, New York.
Shop and mill inspection of slate steel pipes, concrete tests and inspection of structural steel and air-vent pipes—Robert W. Hunt Company, New York.
Structural steel and steel racks—Belmont Iron Works, Philadelphia.

White Wall and Floor Tile Plant Opens in Macon, Ga.

The MANUFACTURERS RECORD recently received samples of white wall and floor tile made in a new plant in Macon, Ga. So far as we know, this is a new industry for the South, but one that should grow and prosper there, since the raw material necessary—the fine white kaolin—occurs there in high grade and great abundance. The new plant, a portion of which is 2 stories, is 112 by 200 feet. The investment represents about \$250,000, and the plant has a capacity of 1,250,000 square feet per annum. Since the Southern States consume about \$3,000,000 worth of floor and wall tile annually, the Macon plant should prosper.

New Florida Lumber Mill Operating.

Apalachicola, Fla.—Jerome H. Shelp Co., Inc., recently began sawing lumber here at its plant, designed principally for the manufacture of cigar box lumber from tupelo. The company cuts its own logs and along with the tupelo will use such other woods as develop, sawing them into heavy lumber.

The new plant consists of an 8-foot Filer & Stowell band saw, with a 5-foot Prescott horizontal resaw, and two 54-inch Mershon twin band resaw. The power plant develops 1040 boiler horsepower, driving 450 horsepower compound-condensing Corliss engines for the saw mill. Four 6-foot Buffalo fans for the kilns are driven by a 75 horsepower engine. The planing mill is operated by electric power from the city of Apalachicola, and the equipment consists of 8 Whitney single surfacers, 2 sanders, shook machinery, and a veneer slicer with glueing machine to take care of finishing operations. About 125 men will be employed at the mill when operating at capacity, in addition to 80 men in the woods.

Dyeing Plant Under Construction at Paducah.

Paducah, Ky.—The Arcadia Dyeing Corporation is building a plant here for hosiery and skein dyeing, general contract having been awarded to Gus Lockwood, local contractor. The building will be 50 by 70 feet. Equipment has been purchased. Officers of the corporation include W. P. Paxton, president; R. F. Claussner, manager, and James R. Smith, secretary.

General Sibert on the Nicaraguan Canal Project and the Panama Canal's Capacity.

By CAPTAIN S. PRESTON EDMONDS.

Mobile, July 25.

Press reports on the volume of traffic through the Panama Canal, and its relation to the discussion of the proposed Nicaraguan Canal, have at times been somewhat confused and contradictory. At the request of the MANUFACTURERS RECORD, I sought to secure exact information from Major General William L. Sibert, who took a distinguished part in the designing and construction of the Panama Canal.

The construction force on the Panama Canal was reorganized in the early part of 1907 by Mr. Roosevelt, and Major William L. Sibert was made a member of the reorganized Isthmian Canal Commission, of which Colonel George W. Goethals was chairman.

Major Sibert's work for the first year of his stay on the Isthmus was connected with the design for the locks and dams for the entire canal. For the following six years he was in charge of the construction of the Gatun Locks and Dam, the canal from Gatun to the sea, and of the West Breakwater in Colon Harbor.

The Gatun Dam was founded on mud 200 feet deep at the center of the Valley, and the Board of International Engineers that considered the construction of the canal looked upon the construction of a dam at Gatun as a doubtful engineering proposition.

The regular flow of promotion in the Army caused Major Sibert to be made a Lieutenant Colonel during the time of the construction of the canal. For his services in connection with such construction, he received the official thanks of Congress and was made a Brigadier General, U. S. Army, skipping entirely the grade of Colonel.

For the last few years General Sibert, now retired from Army service, has had charge of the building of the \$10,000,000 harbor improvements for Mobile recently described in full in the MANUFACTURERS RECORD.

"Is the revival of the Nicaraguan Canal project due to the fact that the capacity of the Panama Canal is about reached?" was the first question put to General Sibert.

"My answers to any of your questions must necessarily be general," he replied, "because I have not been intimately in touch with the operation of the Panama Canal for a good many years.

"As I remember, the present capacity of the Canal was estimated at forty-eight lockages a day, whereas the daily average of vessels passing through the canal now is in the neighborhood of eighteen. In no one day has the number of vessels passing through the canal as now operated, reached the possible maximum.

"Furthermore, in passing vessels through the flight of locks at Gatun, it was decided in the beginning to leave one chamber between vessels; that is, never to permit a vessel to be in a chamber just below one being used by another vessel. However, the operation of this flight of locks has proved to be so simple and so safe that no undue risk would be taken by permitting one vessel to immediately follow another. This would materially increase the capacity of the present locks and consequently the capacity of the canal.

"The foregoing relates to use of the present facilities. When the time comes that they are taxed, additional facilities can readily be had.

"The capacity of the Panama Canal, or of any lock canal, is dependent not only upon the capacity of the locks, but also upon the water supply.

"A material part of the water supply of the Panama Canal

is now being consumed in making electrical energy. The use of water for this purpose is not necessary. While it is a matter of great convenience and economy to generate by water at Gatun the greater portion of the electrical energy needed in connection with the Canal, steam can be used, thereby reserving the full water supply for filling the locks.

"Further, it has, from the time I became acquainted with the canal, been a part of the general thought, if not plan, to ultimately supplement the present water supply in the Gatun Lake by a dam across the Chagres River near Alajuela. No plans, however, were made for this dam during the period of canal construction. This dam will be founded above the level of the present lake.

"It was also anticipated in the beginning that the water impounded by this dam would be used in generating electrical energy, and thus eliminate largely the use of water from the Gatun Lake proper for power purposes.

"By increasing the water supply of Gatun Lake through the building of a dam at Alajuela, and by decreasing the use of water at the hydro-electric plant at Gatun, more than sufficient water is in sight for the operation of the present canal to its capacity, which capacity is measured by the number of ships that can be passed through the locks each day.

"The full use of the canal at night has not yet been attained.

"From all of which, it is seen that the limit of the canal after the water supply has been increased by the construction of the Alajuela Dam—which has now been authorized—will not be reached for years to come.

"The capacity of the flight of locks is the limiting factor on the capacity of the canal. When the present flight of locks is fully used, the capacity of the present canal can be increased by building other locks alongside those already constructed, and thus take care of the commerce across the Isthmus to a still greater extent, provided the water supply is sufficient. I cannot make a positive statement as to this, but I believe that the necessary water will be available.

"You realize that I am talking without having at hand the necessary data to give full and final answers to your questions, but it is my opinion from what I do know that it is feasible to increase the capacity of the present canal so as to reasonably meet the needs of the future.

"Do you know anything about the engineering difficulties of the Nicaragua Canal?" the general was then asked.

"I do not."

"Do you think it ought to be built?"

"The old thought that 'it is best to have two strings to your bow' is probably more responsible than anything else for the revival of the Nicaragua Canal idea.

"The Panama Canal is the cheapest transcontinental freight route that this country has. It is going to result in locating in the South Atlantic, the Gulf and the Mississippi Valley territory a great many industries, and the people projecting these industries naturally see the advantage of two canals. The military and naval man, knowing the development of aerial navigation and the ease of dropping high explosives from the air so that a lock canal might be temporarily put out of commission, see the advantage of two canals across the Isthmus, and it seems to me that, notwithstanding the fact that the present Panama Canal can be so enlarged as to reasonably meet the needs of the future, the Nicaraguan project should be thoroughly restudied so that this country would be in position to commence its construction if develop-

ments indicated that it should be built for our protection.

"The military man sees in the Panama Canal this country's most strategic point. It is our southern boundary, the short route between our coasts, and preparation for its protection in case of war is imperative. The material for its aerial defense, in my opinion, should be kept practically at war strength all the time. Things happen quickly when the airplane is in action."

Big Resort Development by Woodside Interests at Myrtle Beach, South Carolina—\$1,000,000 Hotel Let to Contract.

With an authorized capital stock of \$6,000,000, the Myrtle Beach Estates have incorporated to develop a year-round sea-side resort at Myrtle Beach, S. C. The charter of the company names John T. Woodside, president; J. D. Woodside, R. I. Woodside and E. F. Woodside, vice-presidents, and J. B. Ricketts, secretary, all of Greenville, S. C. The new company plans to continue the development of Myrtle Beach, started some time ago under the direction of John T. Woodside, in association with his brothers and others. It owns more than 66,000 acres of land on the Horry Strand, improvements under way at Myrtle Beach, including street paving, grading for streets and boulevards, and other facilities.

As recently announced, general contract for the erection of the proposed \$1,000,000 Ocean-Forest Hotel has been awarded, the building to be one of the modern sea-side hotels of the country. It will be about 315 feet in length, of Georgian-Colonial architecture, the central section to be 10 stories flanked on each side with a 5-story wing. Special attention has been given to ventilation, each bedroom being provided with large windows, with large closets and bath. Corridors and public rooms will be equipped with a private fire hose line, designed to give added protection to a fireproof building.

On the ground floor from the intersection of Poinsett and Calhoun roads is a passage through the building to the boardwalk. The ground floor of the structure will house 20 shops to face the boardwalk and colonade, while space will be provided for a coffee shop, drug store, beauty parlor and barber shop, natatorium with spectators' gallery, show rooms, sporting goods shop, lockers and shower baths. The lobby floor will be accessible from a grand stairway leading from

the ground on each side of the building, and in addition to the lobby this floor will accommodate offices, palm and card rooms. There will be a ball room for 600 couples and a solarium, 115 by 15 feet, overlooking the gardens and ocean, to be used in the winter season as a lounge. A dining room to seat 600 will be served by a large kitchen equipped with all modern devices.

The first unit of the hotel will contain 220 rooms with private baths, ultimate plans providing for future additions to bring the capacity to 500 rooms and baths. Construction will be of steel, reinforced concrete, tile and brick, the building to be equipped with electric elevators, mail chutes and vacuum cleaning system, in addition to a high-powered revolving searchlight on the tower.

The Ocean-Forest Country Club building is practically complete, this structure being 265 feet long with a central section 3 stories high. The club will accommodate 400 members and guests. Robert White of New York, designed and is building the golf courses, 18 holes of 27 having been completed. It is planned to build a total of 72 holes.

Johnson & Brannan of Lynchburg, Va., are architects and the Consolidated Engineering Company of Baltimore, general contractor for the hotel, on which construction is expected to be completed within 10 months. The Consolidated company is at present carrying on building projects in the South involving an expenditure of approximately \$12,000,000, the more important projects being the \$6,000,000 Lord Baltimore Hotel and \$1,000,000 market in Baltimore; Monticello Hotel, Charlottesville, Va., and railway stations at Greensboro, Winston-Salem and Columbia.

\$500,000 Hotel for Port Arthur, Tex.

Port Arthur, Tex.—General contract has been awarded to McDaniel Brothers, Beaumont, for the erection here of the \$500,000 Vaughn Hotel for the Vaughn Hotel Corporation. The structure will be 10 stories, two of which will be 140 by 75 feet and the remaining stories, 89 by 48 feet, of reinforced concrete, brick and hollow tile construction, with stone trim. It will be equipped with metal lath, metal windows and fire escapes. Storage will be provided for 200 automobiles. Joseph Finger, Houston, is the architect, and Livesay & Wiedemann, Beaumont, associate architects.



OCEAN-FOREST HOTEL TO BE ERECTED AS PART OF SEA-SIDE RESORT DEVELOPMENT.

A Great Island Resort Development Off the Georgia Coast.

By GEO. D. LOWE, Secretary, Coastal Georgians, Brunswick.



©Harris & Ewing

HOWARD E. COFFIN
President of the Sea Island
Company.

Howard E. Coffin of Detroit and Sapelo Island, Georgia.

The six islands, Cumberland, Jekyll, St. Simons, Sapelo, St. Catherine's and Ossabaw, were shown on old charts as "The Golden Isles" for two centuries. Included as part of Florida until Oglethorpe's advent these islands and a narrow strip of the mainland were dotted with Spanish Franciscan missions and military posts from 1566 to 1698 and during that period this area was the real Florida, for of present Florida, only St. Augustine on the East Coast and Pensacola on the West, were important settlements.

From Gualquini Harbor, now overlooked by the Sea Island Yacht Club, went out the first exports from continental United States territory—beaver and deer peltries, sassafras and china-root, wild turkeys and tobacco. So early as 1575 the French trading fleet, poaching in Spanish waters, was buying these products from the Indians of Guale, the northerly province of Florida.

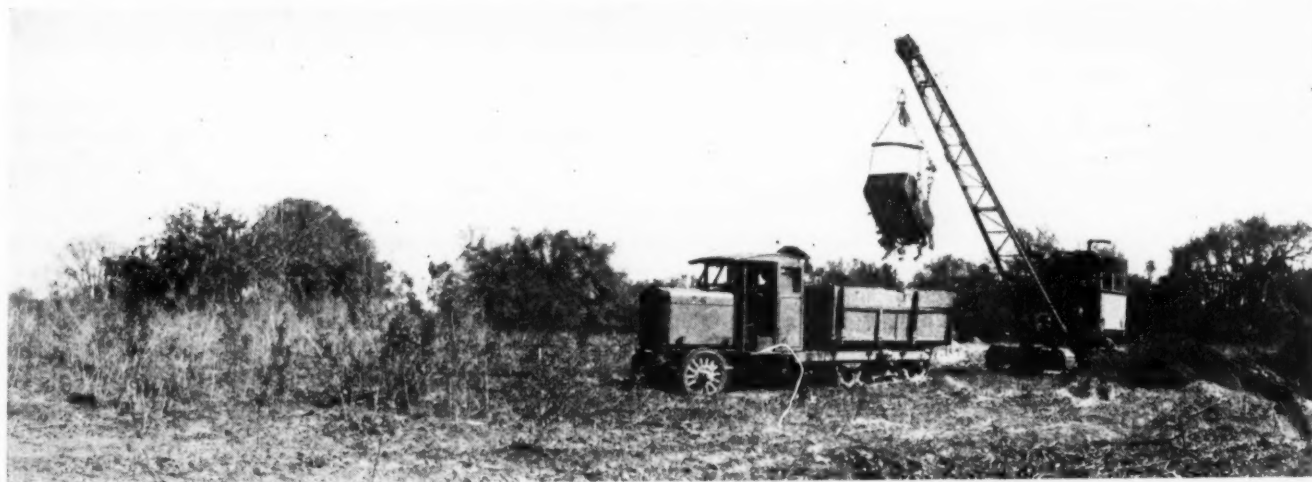
Tobacco before Jamestown; wild turkeys before the Pilgrims came; beaver pelts before Canada, and great Franciscan missions two centuries before California are definite high historical lights of the area that has become notable since the Civil War as an exclusive winter residential area. Thomas Carnegie, brother of Andrew, bought Cumberland

Island nearly 50 years ago, and his widow developed it into one of America's fine estates. The Jekyll Island Club bought its home in 1886 when Florida, California and the Riviera were all under consideration by representatives of 100 of the foremost men of wealth in the country. On the mainland opposite these islands John Wanamaker, William du Pont, Pierre Lorillard, Geo. W. Childs Drexel, and others, have had winter homes and great game preserves for many years.

Sapelo Island was bought by Howard E. Coffin in 1911 and has been made into one of the South's notable estates. Dr. H. N. Torrey of Detroit, bought Ossabaw in recent years and as a game preserve it is regarded as without rival in the country. Henry Ford has on the mainland opposite Ossabaw a great tract of land where, behind a veil of secrecy, interesting experiments agriculturally are under way. The charm of the region scenically and climatically made such an appeal to Mr. Coffin that after spending much of his time on Sapelo for years he determined to establish a residential resort of unusual type on St. Simons Island, the only one of the chain joined to the mainland with a motor road and not in individual ownership.

Mr. Coffin bought the properties now under development more than two years ago, and the work of improvement has been continuous. A nine-hole golf course at King's Retreat Plantation has been completed, and dredging operations are fast fitting a site overlooking Jekyll Island for the second nine to be completed in the near future. The Sea Island Yacht Club—located on Frederica River and overlooking Jekyll Island, Gualquini Harbor, the confluence of several rivers and the wide expanse of "The Marshes of Glynn," made famous by Sidney Lanier—is completed and ranks with the finest in the country. At present the marine hotel Amphitrite is anchored at the yacht club dock, and affords excellent hotel facilities in an area where they have been lacking. A golf clubhouse and considerable road paving comprise the other work done on this portion of the development to date.

The dredge White Heron is completing the golf course fill at King's Creek and opening up a yacht basin in the yacht club district. This work was begun by the suction dredge Blue Heron, now working behind Sea Island Beach. In the King's Creek section the two dredges have handled thousands of cubic yards of material at low average cost. Both dredges



PART OF EARTH-MOVING EQUIPMENT OF THE SEA ISLAND COMPANY.



PAVILION ON SEA ISLAND BEACH—BATH HOUSES, DANCE HALL AND FRESHWATER SWIMMING POOL.

were built by the Ellicott Machine Corp., Baltimore, and were constructed originally for the Palm Beach ocean development promoted by Paris Singer. Capt. Croney, long engaged in this type of work, has been in charge of all dredging operations of the Sea Island Company from the outset.

Known for some years as Long Island and later as Glynn-Isle, the barrier island now called Sea Island Beach is the scene of the company's most active operations. A handsome pavilion has been constructed and is in use. The Sea Island Cloister, an Addison Mizner-designed hotel in the Spanish manner, is practically completed and will be operated on an all-year schedule. Much paving of roadways, parkways and drives has been done on Sea Island Beach; the water system

Company, of New York and Lakeland, Fla.; the company had the county highway paving contracts on St. Simons Island at the same time. A portion of the mechanical equipment, dragline excavators, crawler tractors and dump trucks, came from the Montauk Beach development operation in which Mr. Coffin is also interested. Other equipment also came from the Miami Beach project, while much has been purchased direct.

The present organization of the Sea Island Company includes Howard E. Coffin, president; Chas. Wright, Detroit, vice-president; Paul J. Varner, Brunswick, vice-president and general manager; Alfred W. Jones, St. Simons Island, vice-president in charge of development operations; Chas. F. Red-



TREE-MOVING MOTOR TRUCK HANDLING SABAL PALMS ON SEA ISLAND PLAYGROUND.

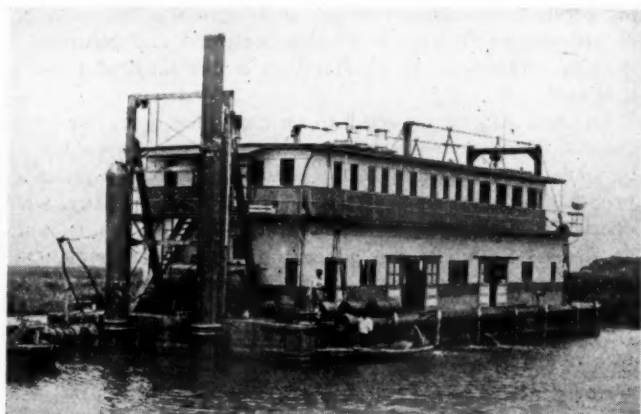
is being installed to supply the mid-section of the island, and a white way installation in the hotel-pavilion area is in process of erection. Between 34th and 36th streets the company has erected several fine cottages designed for all-year comfort, and a number of additional cottages are under construction by purchasers of lots. The work of opening streets and grading and filling depressions is continuous. A large freshwater swimming pool has recently been opened adjacent to the pavilion, and an open-air picnic shelter of attractive design is in use this season.

All construction on the project up to this time has been done by the Sea Island Supply and Construction Company, a subsidiary organization. Dredging, clearing, golf course construction, grading and filling has been by force account. Road paving was done by the W. P. McDonald Construction

den, vice-president in charge of sales; L. M. Carle, Detroit, secretary and treasurer; W. H. Parker, Brunswick, assistant secretary and assistant treasurer. The Sea Island Company is a Georgia corporation domiciled in McIntosh county with the operating headquarters in Brunswick. From the inception of the project until recent weeks the active management of the company was in the hands of Paul J. Varner, a young Georgian who has been connected with Mr. Coffin's McIntosh county interests for several years. With the approximate completion of the first units the organization has lately been increased and responsibilities divided among new executives as above mentioned with Mr. Varner still functioning as vice-president and general manager. The Sea Island Company holds also the Floyd's Neck tract of 60,000 acres in Camden county, an extensive game preserve, and other properties in the

coastal region of Georgia. Sea Island Cannery, another Coffin enterprise in McIntosh county, is a large owner of oyster beds and is engaged in oyster propagation on a considerable scale. At Darien is located a modern seafood cannery which packs prawn and oysters in season.

Mr. Coffin is president of the Montauk Beach Development Company, vice-president of the Hudson Motor Car Company,



"BLUE HERON," ONE OF TWO SUCTION DREDGES ON THE PROJECT.

chairman of the board of the National Air Transport and interested in various other corporations. Since the inception of the Sea Island Company development project he has given the work much of his personal attention. The inter-relation of the Sea Island Playground on St. Simons Island with the Fisher chain of Montauk Beach and Gulf Stream Yacht Clubs, Inc., stretching from Montauk Beach to Cocolobo Key will bring to the Georgia resort, practically in its center, the greater portion of the fleet of yachts that goes south in winter and returns with the wildfowl.

Contracts for \$2,500,000 Veterans Hospital.

Alexandria, La.—General contract has been awarded by the United States Veterans Bureau, L. H. Tripp, chief of the construction division, Washington, to the N. P. Severin Company, Chicago, at \$1,027,000 for the erection of a 400-bed hospital here, for which \$1,500,000 is available. Various units will include an administration building, infirmary, dining hall, neuro-psychiatric building, two tuberculosis buildings, storehouse, boiler house, nurses' building, colored infirmary, residence for medical officer in charge, 3 duplexes for medical officers, apartment building and gate and transformer house. Various corridors will be built to connect the buildings, roads and walks constructed, grading done and drainage installed. The architecture will be typical of the early French period and construction will be of stucco and stone, with tile roofs. Other contracts have been awarded as follows:

Concrete chimney—John V. Boland Construction Company, St. Louis, at \$4042.
Electrical work—Ray A. Phelps, Beloit, Wis., \$86,640.
Elevators—Washington branch of Otis Elevator Company, New York, \$32,276.
Heating—Redmon Heating Company, Louisville, Ky., \$86,800.
Plumbing—D. W. Chapman Company, Washington, D. C., \$120,896.
Refrigeration—Pyles Refrigerating Engineering Company, Baltimore, Md., \$20,000.

The completed project, as contemplated, will cost about \$2,500,000.

Manganese Producers' Annual Meeting.

The annual meeting of the American Manganese Producers Association will be held at the Mayflower Hotel, Washington, on Monday and Tuesday, September 10 and 11. A review of the work of the past year and prospects for the future of the industry will be presented at this meeting.

Cane-Sugar Refining.

The Department of Commerce announces that establishments engaged in the refining of cane sugar in 1927 reported products valued at \$597,445,632, a decrease of 1.5 per cent as compared with \$606,632,783 for 1925, the last preceding census year.

The total value for 1927 was made up as follows: Refined sugar (hard), 4,927,991 tons, valued at \$572,633,038; soft or brown sugar, 200,091 tons, \$20,986,867; refiner's sirup (edible), 5,536,808 gallons, \$1,247,054; refiner's blackstrap and non-edible sirup, 31,014,017 gallons, \$2,171,900; miscellaneous products, \$406,773.

The quantity of raw sugar melted during 1927 was 5,404,703 tons, of which amount 824,096 tons came from Continental United States and Hawaii, 544,129 tons from Porto Rico, 6750 tons from the Virgin Islands, 3,513,013 tons from Cuba and Honduras, and 516,715 tons from the Philippines.

Of the 21 establishments reporting for 1927, 5 were located in New York, 4 in Louisiana, 3 in Pennsylvania, 2 each in California, Massachusetts and Texas, 1 in Georgia, 1 in Maryland, and 1 in New Jersey.

SUMMARY FOR THE INDUSTRY, 1927 AND 1925.

	1927	1925	Per cent of increase (+) or decrease (—)
Number of establishments....	21	21
Wage earners (average number)	13,996	14,502	—3.5
Cost of raw sugar and other materials, containers for products, fuel and purchased power	\$597,445,632	\$606,632,783	—1.5
Value added by manufacture.	\$551,594,278	\$549,896,102	+0.3
Horsepower	\$45,851,354	\$56,736,681	—19.2
	86,979	89,098	—2.4

Bids Deferred on \$4,000,000 Dallas Waterworks.

Dallas, Tex.—Proposals on the \$4,000,000 improvements for the Dallas water system, originally called for August 10, will not be opened until September 1, according to an announcement by the City Commission. The postponement has been caused by a slight change in specifications occasioned by locating the central pumping and filtration plants east instead of west of Maple avenue. In addition to these plants, the former of which will cost \$800,000 and the latter \$1,200,000, a distribution system will be constructed at a cost of \$2,000,000. Fuller & McClintock, New York, and David Morey, Jr., Dallas, are consulting engineers. J. B. Winder is chief engineer of the Dallas water department.

Oil and Gas in Mississippi.

Recent oil and gas prospecting in Mississippi, with a brief study of subsurface geology, is presented by Ralph E. Grim, assistant state geologist, in Bulletin No. 21 of the State Geological Survey, E. N. Lowe, director. For months, Mr. Grim prosecuted a very careful and thorough microscopic study of well cuttings and cores in possession of the Geological Survey, as well as of outcrop material from type localities of the various Coastal Plain formations within the State, and his report brings to light new facts that are expected to prove important in future drillings in Mississippi.

\$300,000 Residence Begun at Houston.

Houston, Tex.—Construction is under way on a \$300,000 residence to be erected at Clear Lake, near Houston, for James M. West of this city, general contract having been awarded to the Southwestern Construction Company, Houston. The building will be about 200 by 50 feet, 2 stories, with reinforced concrete and hollow tile walls trimmed with stone and stucco, concrete foundation and tile roof. Joseph Finger is the architect and H. M. Sanford, engineer, both of Houston.

\$1,600,000 Freight Yard Opened by Norfolk and Western at Winston-Salem.

A modern railroad yard, costing about \$1,600,000 and comprising approximately 8 miles of track, new track scales, water service facilities, yard offices, etc., was recently completed at Winston-Salem, N. C., by the Norfolk and Western Railway Co. The additions to the railroad's facilities at that point include the double-tracking of the main line through the city for about 2 miles; the construction of a new and larger bridge at Liberty Street, and the elimination of two grade crossings by the building of two overhead bridges at the yard.

The decision to build the new yard and otherwise improve the railroad's facilities at Winston-Salem, was based upon the increase in volume of business handled by the railway into and from the city. It is connected with the old yard by a continuous double track, contains 8 yard tracks each with a capacity of from 70 to 90 cars; two car repair tracks; one loop track and one running track. There is also a 50,000-gallon water tank, standpipe and other water service facilities; a 200-ton track scale, and a yard office. Powerful flood lights have been installed. Two streets have been opened on the railway's right of way at the north end of the yard, one on either side, for the use of the county.

The new yard is approximately one mile long and is unique in that cars may be classified and switched by gravity from both ends of the yard, the 8 switching tracks dipping slightly towards the center of the yard. Some idea of the vast amount of work done in building the yard can be obtained from the fact that there were 325,000 cubic yards of excavating and filling. Work on the project started in November, 1927.

The grading and masonry contract was let to the Walton Construction Co., Roanoke, Va., and this firm sub-let the masonry contract to Rosenheim, Pemberton & Cruise, Bluefield, W. Va. A Marion 60, a 1¾-yard Marion, a 1½-yard Osgood, and a 1-yard Erie were the shovels that did the digging, loading into Western dump cars. Five Vulcan locomotives and one Porter locomotive were used for hauling. The yard tracks were laid with rail removed from the main tracks of the company. No turntable or coaling plant was installed, as these facilities are available in the old yard. The railway company built its own water supply system.

\$1,000,000 Refractories Plant Proposed for Augusta, Ga.

Augusta, Ga.—Plans are being made by the Babcock & Wilcox Company, New York, for the construction of a refractories plant here to cost eventually \$1,000,000, according to press reports here quoting H. L. Tucker, representative of the company, who has been in Augusta for several months perfecting preliminary details. A 16-acre site has been purchased on the Georgia & Florida Railroad and contract for grading awarded to H. C. Morrison & Company, of this city, it is said.

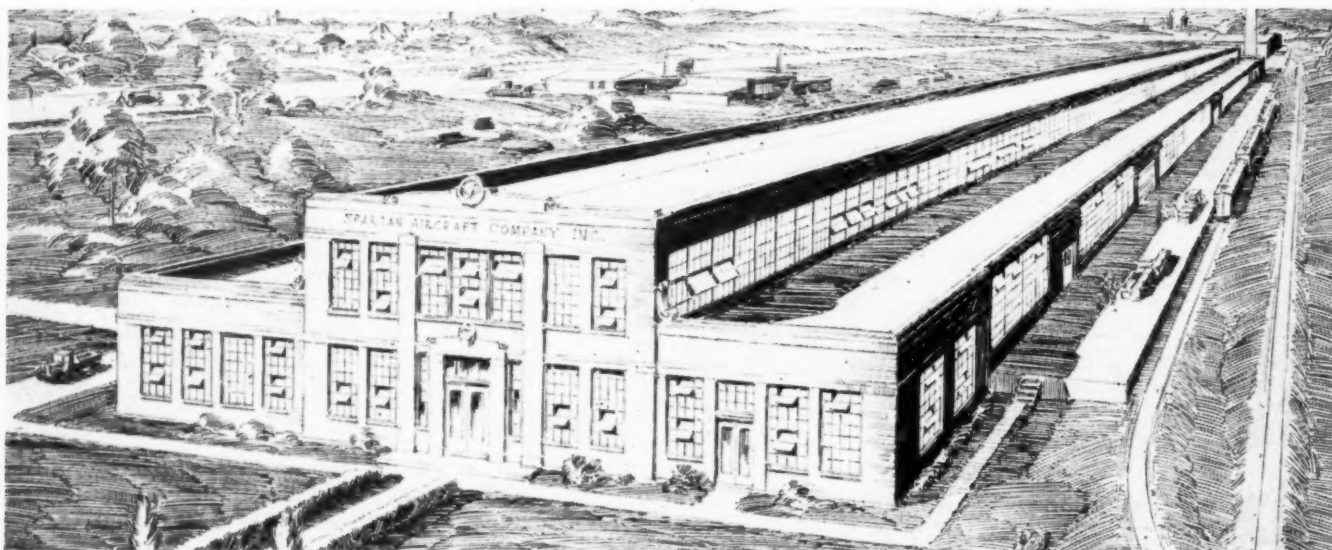
The first unit is expected to be ready for operation before the end of the year and it is understood that extensions will be made as rapidly as possible. Machinery for the plant will probably be made by the Babcock & Wilcox Company, which operates a tubular boiler plant at Bayonne, N. J.; a tube mill at Beaver Falls, Pa.; a general plant at Barberton, Ohio, and a refractories plant at East Liverpool, Ohio, besides being interested in the Bailey Meter Company, Cleveland, Ohio, and the Fuller-Lehigh Company, Fullerton, Pa. It is said the company will probably obtain clay for making refractories material from the Albion Kaolin Company at Hepzibah, Ga., and will operate under the name of the Babcock & Wilcox Refractories Corporation. It is expected that operations will be conducted on a 24-hour basis, seven days a week.

\$1,000,000 Chemical Plant for Memphis.

The Board of Adjustment, Memphis, Tenn., has granted permission to the Plough Chemical Company of that city, to erect a \$1,000,000 plant at South and East parkways, for the manufacture of chemicals and cosmetics. The company advises that it will probably be a month or two before details can be worked out.

Aircraft Manufacture in 1927.

In a preliminary statement on aircraft manufacture for 1927 the Census Bureau says that 61 concerns built 1,857 airplanes, valued at \$12,024,085, and 105 seaplanes and amphibians, valued at \$2,226,520. Compared with 1925, this represents an increase of 776 planes and of \$5,379,000 in value. Of the 61 establishments reporting, four were located in Missouri, two in Maryland, and one in Virginia.



PERSPECTIVE OF SPARTAN AIRCRAFT PLANT UNDER CONSTRUCTION AT TULSA, OKLA.

This plant, when completed, will be one of the largest airplane factories in the Southwest, involving the expenditure of \$500,000. It will be housed in two units of daylight construction with abundant ventilation. Finished airplanes will be towed by motor truck a short distance to the company's flying field, where final testing and fly-away deliveries are made. The project is scheduled for completion in September. It was designed and is being erected by the Austin Company, engineers and builders, Cleveland, Ohio.

Lake Charles Active in Building and Industry.

Featuring the activity at Lake Charles, La., as outlined to the MANUFACTURERS RECORD in a resume by the Lake Charles Association of Commerce, are the terminal and wharf facilities being developed by the municipality at a cost of \$500,000, the erection by the Calcasieu National Bank of a \$400,000 building, the establishment of new industries and the construction of a hotel and other buildings for various purposes.

A new building has been erected by the First Methodist Episcopal Church at a cost of more than \$100,000. The new hotel is to be 10 stories and will represent an investment of approximately \$700,000. It will front 75 feet on Ryan street and 130 feet on Pujo street. The structure is being promoted by W. P. Weber and H. T. McLain, both of Lake Charles, and upon its completion will be operated by the Daly-Moffatt Company of Houston, under a 15-year lease. It will be known as the Lake Hotel, it will be of reinforced concrete and steel and contain 200 rooms, each provided with running ice water. There will also be a roof garden. Plans and specifications were prepared by Harold M. Sanford, engineer, and Joseph Finger, architect, both of Houston. McDaniel Brothers, of Lake Charles and Beaumont, Tex., have been awarded general contract and the following sub-contracts have been let



NEW HOTEL FOR LAKE CHARLES.

to date: Heating and refrigeration, El Dorado Plumbing and Heating Company, El Dorado, Ark.; pile driving, A. M. Mutersbaugh, Inc., Lake Charles; reinforcing steel, Laclede Steel Company, St. Louis, Mo., and sheet metal work, L. Seline, Houston.

A new \$250,000 laundry has been completed by G. W. and R. L. Cline, the machinery being housed in a fireproof and semi-fireproof 2-story building, 75 by 200 feet. It is regarded as one of the modern laundries and dry cleaning plants of the South. J. Y. Dempsey is the general contractor; J. C. Hildebrandt contractor for electrical equipment, and the Craft-Rushworth Company, for plumbing and steamfitting, all of Lake Charles. Laundry machinery, all motor-driven, was installed by the American Laundry Machinery Company, Cin-

cinnati, Ohio, and a dry cleaning plant of 2000-gallon capacity was installed by S. F. Bowser & Company, Inc., Fort Wayne, Ind. Other equipment was supplied as follows: Rug machinery, The United Vacuum Appliance Company, New Britain, Conn.; steam traps, Morehead Manufacturing Company, Detroit, Mich.; motors, of 75-kilowatt capacity, made by the Allis-Chalmers Manufacturing Co., Milwaukee, Wis. The Layne Louisiana Company of Lake Charles, drilled a well for supplying the laundry with water, and the Dixie Fire Prevention Company of New Orleans installed a sprinkler system. In the pressing department the Valetaria system of the U. S. Hoffman Machinery Corporation, New York, was installed along with Klear-Bucks for silks by the same company. The delivery department uses eight trucks and covers a territory radiating 40 miles from Lake Charles.

The Dixie Creameries, Inc., of Shreveport, operating about 20 creameries in Louisiana, Texas and Arkansas, recently completed a \$125,000 plant in Lake Charles and have established 20 cream and milk stations from which the company's trucks daily gather milk and cream for the Lake Charles plant. The milk and cream are weighed and tested at the stations and the farmers paid in cash for each delivery. Since the completion of the Lake Charles plant the Dixie Creameries have been merged with a number of other companies into the Southwest Dairy Products Company, of which Clarence Ford, president of the Dixie Creameries, becomes vice-president and general manager. The new company, a \$10,000,000 organization, is composed of 48 ice, ice cream and dairy products plants in Louisiana, Arkansas and Texas. C. M. Conway of Texarkana, Ark.-Tex., is president.

In addition to the Dixie Creameries and its 20 dairy plants, other companies in the merger include the following: Southwest Ice and Cold Storage Company, Dallas, which operates plants at Dallas, Texarkana, Fort Worth, San Antonio, Hillsboro and Frost; the Martin Ice Company of Texarkana; the Twin-City Ice Company of Texarkana; Polar Ice Company of Dallas, and the Dixie Ice Company of San Antonio, which has ice-cream and dairy plants at Fort Worth, Houston, Dallas, Beaumont, Port Arthur and New Orleans. The Nacogdoches Ice Cream Company of Nacogdoches, Tex., and the Southland Dairies of Taylor, Tex., are also included in the consolidation.

To Develop Big Acreage Near Indiantown, Fla.

West Palm Beach, Fla.—A. R. Nielsen, of this city, has purchased 2500 acres south of Indiantown, from the Land Company of Florida, and has two crews of engineers at work surveying and laying out the property. General plans call for farming, specializing in dairying, with trucking and citrus cultivation as side lines. J. W. Gooding is associated with Mr. Nielsen. Eugene Kifer, general manager of the Land Company of Florida, reports this is the first of a group of similar developments under consideration, and that outside capital will probably take over large areas now owned by the company, and will develop along lines similar to the Nielsen project.

Norfolk Contractor Plans 40 Homes to Cost \$360,000.

Norfolk, Va.—Plans are being made in the office of W. E. Smith, local contractor, for 40 residences to be erected in Larchmont, Colonial Place, Winona, Lochaven and West Ghent, at a cost of approximately \$360,000. Construction will be of brick or clapboard and shingles, work to begin on the first of them by October 1.

Work Begins on \$6,500,000 Dallas Reclamation Project—Contractors Award Equipment Contract.

Clearing and grubbing are under way on the big reclamation project for Dallas County and the City of Dallas, Texas, a \$6,500,000 enterprise designed to reclaim 15,000 acres of land in the Trinity River bottoms of the district, 7000 acres of which will be in the City of Dallas. The project is being carried out by the City and County of Dallas Levee Improvement District Supervisors, John J. Simmons, chairman, and Dallas County Levee Improvement District No. 5, S. C. Pratt, chairman, both of Dallas. Contract was recently awarded to the Trinityfarm Construction Company, Waxahachie, Texas, for building 25 miles of 30-foot levee, 15 miles of new channel, approximately 4,000,000 cubic yards of hydraulic fill, drainage conduits and pumping plants.

Equipment being used on the work consists of Monighan dragline excavators exclusively, manufactured by the Monighan Manufacturing Corporation, Chicago. A 5-yard excavator, carrying a 100-foot boom, has been erected and is now being used in the construction of the proposed levee, while the contractors are at present erecting two 3-W Monighans and one 6-W Monighan and expect to place the following additional machines at once: Two 3-W Monighans, one 4-W Monighan and one 22-inch dredge. Construction of sluice gates, pumping plants and bridges has not been started. No part of the work will be sublet.

The work will be under the supervision of the Morgan Engineering Company, consulting engineers of Memphis, Tenn., in association with Myers, Noyes and Forrest, Dallas, engineers for the district.

\$34,000,000 Hydro-Electric Project for Missouri.

The construction of an hydro-electric project at Table Rock on White River, near Springfield, Mo., at a reported cost of \$34,000,000, is contemplated in plans of the Empire District Electric Company, Joplin, Mo., controlled by Henry L. Doherty & Company, New York. The latter company advises that the project is in a preliminary stage, with applications pending before regulatory bodies and particularly for a license before the Federal Power Commission, Washington. Plans call for the construction of a dam 195 feet high with an ultimate installation of 150,000-kilowatt generating capacity.

\$18,750,000 for Public Improvements in State of Bahia, Brazil.

The State of Bahia, Brazil, recently voted a bond issue of \$18,750,000 to be used for public improvements, and Joseph F. Burt, American Vice-Consul in Charge at Bahio, suggests that a large quantity of American equipment and materials may be used. Firms interested in this business are advised to send catalogues and data addressed as follows: Dr. Matta Barros, Director da Directoria de Estradas de Rodagem, Departamento da Agricultura, Industria, Commercica, Viacao e Obras Publicas, Bahia, Brazil.

Galveston Channel Work to Cost \$621,000.

Galveston, Tex.—The United States Engineer Office, War Department, Washington, has awarded contract at approximately \$621,000, to the Orleans Dredging Company, New Orleans, La., for dredging Galveston channel to a depth of 32 feet with an overdepth of 2 feet, according to information received by District Engineer's Office here. The channel will have a width of 1125 feet from the inner bar near Fort Point to Fifty-ninth street. About 4,000,000 cubic yards of material will be removed.

\$2,000,000 San Antonio Theater Let to Contract.

San Antonio, Tex.—The Interstate Amusement Company, Dallas, Karl Hoblitzelle, president, awarded contract to the American Construction Company, Houston, for the erection of the proposed \$2,000,000 Majestic Theater and office building here. The office structure will be 14 stories, about 45 by 164 feet, with the theater in the rear, approximately 164 by 135 feet, the equivalent in height to 7 stories of the office building. Construction will be fireproof, the supporting frame of the office section to be of structural steel, bar joist and concrete slabs, and that of the theater to be of tin pan construction and concrete slabs. The exterior will be of cast stone, face brick and natural stone, with tile and composition floors, marble wainscoting, hollow tile partitions and composition roof. Excavation contract was awarded to Walsh & Burney, Inc., San Antonio. John Ebersson, New York, is the architect.

10-Story Apartment Building for Charlotte.

Charlotte, N. C.—Plans are being prepared by M. R. Marsh, local architect, for a 10-story apartment building here for the Charlotte Apartment House Corporation, Wesley T. Heath, president. The structure will be 87 by 60 feet, of Tudor design, with sand stone front, steel casements, marble lobby floor and wainscot, Caen stone walls and ceilings and resilient floors for bedrooms and kitchens. It will contain 75 apartments of one, five and three rooms each, to be equipped with mechanical refrigeration, and has been designed for combination hotel and apartment use. Construction will be handled by the Wesley T. Heath Building Company, Charlotte.

\$700,000 Addition for El Paso Hotel.

El Paso, Tex.—Construction is expected to begin within 60 days on a 300-room addition to the Hussmann Hotel here, according to Harry L. Hussmann, president of the Hussmann Hotel Company. Tentative plans for the addition, which is estimated to cost \$700,000, have been prepared by Guy L. Frazer, local architect, and working drawings are expected to be completed within two weeks. The building will be 9 stories, with a 90-foot frontage on Mesa avenue, and will provide for a cafeteria, convention hall to seat 700, store rooms, private rooms and sleeping rooms. A modern storage garage will occupy the basement. Two elevators will be installed. H. W. Waller is manager of the Hussmann Hotel.

\$400,000 Building Project for Raleigh.

Raleigh, N. C.—According to an announcement by W. B. Drake, president of the Raleigh Banking and Trust Company, eight additional stories will be erected to the bank's 3-story building at Fayetteville and Hargett streets, and a new building erected at Hargett and Salisbury street by the Mechanics Savings Bank, affiliated with the Raleigh Banking and Trust Company. The former structure will be 66 by 114 feet, of limestone construction, and will contain 32,000 square feet of floor space, while the latter, also to be of limestone, will be 60 by 24 feet. The present Mechanics building will probably be remodeled and enlarged for stores. The total cost of the project is estimated at \$400,000.

\$300,000 Building for St. Louis.

St. Louis, Mo.—A syndicate headed by Sam Hamburg, Jr., is having plans prepared by Jesse L. Bowling and Isadore Shank, St. Louis, for a 4-story store, office and apartment building at Delmar and De Ballviere boulevards, this city. The structure will contain ten stores on the ground floor, 45 apartments above and a number of bowling alleys in the basement.

Piedmont & Northern Trial on Line Extension Set for October.

The suit of the Piedmont & Northern Railway to set aside the recent refusal of the Interstate Commerce Commission to allow the electric railway to extend its lines from Spartanburg, S. C., to Gastonia, N. C., and from Charlotte, N. C., to Winston-Salem, N. C., will be heard in Asheville, starting about October 2, before Circuit Judges Edmund Waddill, Jr., and Elliott Northcott, and District Judge Morris A. Soper, of Baltimore. It is believed that the trial has been set ahead to permit of the return from Europe of Charles Evans Hughes, Chief Counsel for the Piedmont & Northern.

\$740,000 Contract for Montgomery School.

Montgomery, Ala.—The County Board of Education, W. R. Harrison, superintendent, awarded general contract at \$740,000, to Algernon Blair, local contractor, for the erection of the Sidney Lanier high school building here. The structure will be of Collegiate Gothic architecture, fireproof, 3 stories, with a frontage of 466 feet, and will contain an auditorium to seat 1850. There will also be a 2-story gymnasium with a frontage of 132 feet. Frederick Ausfeld, Montgomery, is the architect.

Water Treating and Pumping Plant Planned.

Boca Raton, Fla.—Bids will be received until August 15 by the Mayor and Board of Commissioners for the construction of a pumping station and water treatment plant, the latter to have a daily capacity of 500,000 gallons. A pipe well will be driven into ledge rock. Plans and specifications may be obtained from Beulah Butler, town clerk, or from H. S. R. McCurdy, consulting engineer, Bryn Mawr, Pa.

Contract for \$2,500,000 Pipe Line.

Enid, Okla.—The Consolidated Gas Utilities Company, of Oklahoma City, Logan W. Cary, president, awarded contract to Williams Brothers, Inc., Tulsa, for the construction of a 14-inch pipe line of approximately 150 miles, from the Amarillo gas fields in Texas to this city, via Sayre. It is also planned to pipe a number of cities and towns along the route, the total expenditure for new construction being estimated at \$2,500,000. Contract for 25,000 tons of steel pipe has been awarded to the Youngstown Sheet & Tube Company of Youngstown, Ohio.

Bids on \$750,000 Atlanta Building.

Atlanta, Ga.—Bids will be received until September 15 by Pringle & Smith, architects, for erecting the \$750,000 office building at Peachtree, James and Forsyth streets, for the Rhodes-Haverty Company. The structure will be 17 stories and basement with 3-story tower, 82 by 95 by 80 feet, of reinforced concrete and steel construction, and will be equipped with four elevators. Space will be provided on the ground floor for six stores.

100 Dwellings to Be Built at Elizabethton.

Elizabethton, Tenn.—E. C. Alexander, president of the Elizabethton Chamber of Commerce, has been authorized by the organization to arrange financial details for the erection of 100 dwellings here. A financing company to be organized with a capital stock of \$100,000 will build as many houses as possible above the required hundred.

Extensive Construction Activities of Mississippi Power and Light Company.

The Mississippi Power and Light Company, Jackson, Miss., has six projects under way in various sections of Mississippi, including the construction of an 110,000-volt transmission line from Greenwood to Durant, on which work has recently been started. The main line will extend from a large sub-station at Greenwood for a distance of 37 miles, while a 13,000-volt line, which is included in this project, will follow the highway from Lexington to Durant, a distance of 13 miles. North from Durant to Vaiden, a distance of 20 miles, and south from Durant to Goodman, a distance of 9 miles, the line will connect with a 13,000-volt line now running from Goodman to Pickens. At Durant an 110,000-volt sub-station is being erected, with a transformer capacity of 1500 k. v. a., located on the main line of the Illinois Central Railroad. This project opens up a rich territory and it is said that citizens are now making plans to utilize the available electrical power for agricultural and industrial purposes.

The company recently acquired the distribution system in Summit, with 5.3 miles of lines serving 181 customers, and has purchased the light plant of the Town of Flora, equipped with oil engines and 3.5 miles of distribution lines. A 13,000-volt transmission line is being built from Jackson to Flora by way of Pocahontas. Citizens of Charleston authorized the sale of the municipal water and light plant to the Mississippi Power and Light Company, which took over the plant July 5. This property is equipped with oil engines and serves 435 water customers and 365 light customers.

The distribution system of Bude has also been taken over by the company, which is building a 13,000-volt transmission line from Brookhaven to Bude. This line will serve the communities of Zetus, Lucian, McCall, Quentin, Eddiceton and Monroe. The company has also acquired the distribution system and franchise in Bogue Chitto and is now constructing a 10-mile, 13,000-volt line south from Brookhaven through Thaver.

May Accept Bid of \$840,700 for Erecting Atlanta City Hall.

Atlanta, Ga.—Following a tabulation of bids for constructing Atlanta's new city hall, the special city hall committee of the City Council and the contract committee of the Atlanta Bond Commission recommended that general contract be awarded to the National Construction Company, Atlanta, at \$840,700. The building will be 15 stories, fireproof, of reinforced concrete and steel frame construction, with stone and terra cotta exterior, tile roof and marble, tile and linoleum floors. G. Lloyd Preacher & Company, Inc., Atlanta, are the architects and engineers, while the project is being handled by Howard G. McCutcheon, chairman of the city hall committee of the city council.

Mississippi Cheese Plant Operating.

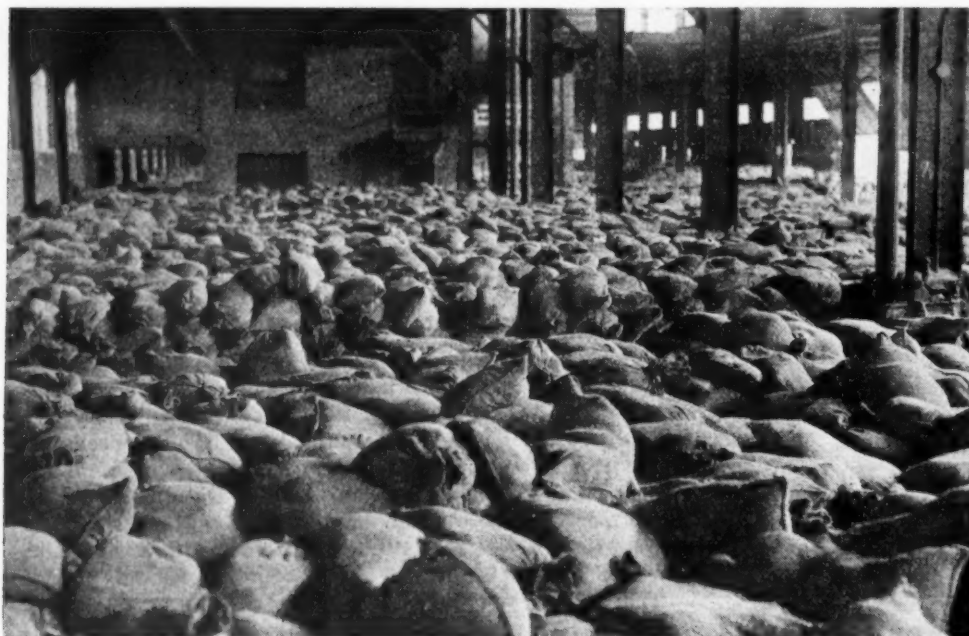
The Montrose Cooperative Cheese Company opened its factory for the manufacture of cheese last month at Montrose, Jasper County, Mississippi, according to E. Malcolm Jones, agricultural and industrial agent of the Gulf, Mobile & Northern Railroad Company. Operations were begun with 75 patrons and a daily milk receipt of 3,000 pounds which increased to 3,500 pounds the first week. The plant has a capacity of 10,000 pounds, says J. M. Sharp, manager, formerly of Saxon, Wisconsin.

St. Paul's Methodist Church, Houston, Tex., W. W. Fondren, chairman of the building committee, will soon call for bids for the erection of a \$600,000 building, for which plans and specifications are being prepared by Alfred C. Finn, Houston.

Unemployment—One Reason.

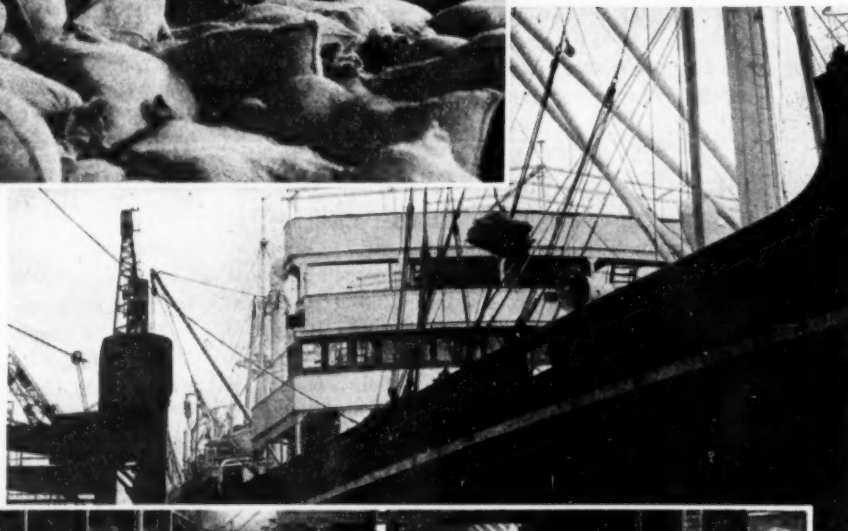
Since 1922 over 11,000,000 barrels of foreign cement were sold in American markets at a cost to American wage earners of more than \$11,000,000 by their loss of 1,905,956 working days. These illustrations bring home to the American worker, to the American manufacturer, to the American merchant facts in what one might be pardoned for saying "concrete" form. They make one wonder how long can prosperity stand the strain? as asked by the National Builders Supply Association of Cleveland, O., which recently issued a folder detailing the information published herewith.

More than 2,000,000 barrels of European cement were imported into port cities in 1927. These imports deprived 350,000 wage earners of a day's work and deducted more than \$2,000,000 from their pay envelopes. They depleted American buying power by more than \$3,000,000, which was sent from this country to be spent abroad.



A recent consignment of 80,000 barrels of Belgian cement stored in the Army Base at Boston—This consignment, which entered the United States free of duty, cost American labor 14,000 working days and more than \$85,000 in lost wages.

Unloading Belgian cement from a Greek tramp steamer at the Boston Army Base. This picture could be reproduced in many coast cities.



FOREIGN CEMENT STORED IN THE ARMY BASE AT BOSTON.

During 1927, 481,541 barrels of foreign cement were received at this government building, erected during the World War at a cost of \$26,000,000 to American taxpayers. It is now leased to importers for the storage of cheaply produced foreign commodities which undermine American labor, American living standards and American prosperity. The shipments of European cement passing through this Base last year cost American workers more than \$500,000 in lost wages and 85,000 days of employment.

Letters From Our Readers

The MANUFACTURERS RECORD is being swamped with letters in regard to the political situation. Some are letters of bitter criticism; most of them are letters of strong commendation of the position taken by this paper. From time to time, as space permits, we will publish these letters regardless of whether they are letters of commendation or criticism.

These letters must not discuss the political question from the religious standpoint.

A New York Lawyer and Financier Who Knows the Situation Appeals to the South.

Guy M. Walker,
New York.

Editor Manufacturers Record:

I enclose an editorial from the New York Tribune "Why Is He Here?" showing the foreign origin and character of the criminal class that controls New York. The answer is that he is here because he does the "strong arm" or violent work sometimes demanded by Tammany because it is necessary to keep certain of its own cohorts under discipline and control—because he performs when called upon by Tammany, Tammany protects him from deportation.

I enclose a bunch of other clippings. I have made no effort to pick foreign names. They are just the run of the paper. If our people—the American South and West could only know the character of Tammany New York, it is unbelievable that they will put Tammany in the White House or take a chance on restoring unrestricted immigration, which is one of Tammany's objectives.

Do you recall the violent protests of Tammany Congressmen published in the New York World a year ago against my letter which you published on the foreign character of New York City?

You are doing the greatest service to the South, you have ever done, in emancipating it from the economic fetishes and spiritual bondage that have bound it to the past! It is time for the South to follow your lead—forward!

GUY M. WALKER.

Mr. Walker is one of the best known financiers and attorneys of New York, whose enthusiastic commendations of the South have from time to time been widely republished by the newspapers of this section. Mr. Walker invested heavily in Mississippi and makes his home there for the greater part of the time. The clippings which he enclosed, picked at random, give the names of many, evidently of foreign origin, who had been arrested for one cause and another. Among these names were the following:

Petrino
Palicastro
Federwich
Silverstein
Neuman
Schacht
Dubinsky
Curcio
Lilo
Gairidi
Chiarello
Cucin

and others of the same unpronounceable character.

The clipping from the Tribune to which he referred is as follows:

"Why Is He Here?"

"A man known as The Clutching Hand has been arrested in Brooklyn on a charge of burglary and held without bail because he is suspected of knowing something about the illegal killing of a gangster the other day.

"The Clutching Hand has a record. Here is a summary of it: He was convicted of murder in Palermo, Italy, in 1911, and was sentenced to twenty-one years imprisonment. He was arrested here December 2, 1918, charged with homicide and discharged for lack of evidence. He was arrested

January 23, 1919, in another homicide case, tried and the jury failed to agree, standing eleven for conviction to one for acquittal. He was not again tried on this charge. In another investigation into a killing he was arrested on September 28, 1920, and discharged in a Magistrate's court. In the following month for stealing a truckload of alcohol he was sentenced to a minimum term of two years in State prison, which he served. In 1923 he was arrested on charges of assault, being discharged in the Magistrate's court. In March, 1928, he was arrested on a charge of homicide, having killed a child with his automobile; in April he was again arraigned for homicide, again to be discharged.

"This imported resident of the United States has too great an affinity for violence to be a desirable member of the family. Has the United States conscientiously exhausted every means to exclude him? If it has, its deportation laws are indefensibly lax."

Our Louisiana Friend Has Permitted His Anger to Run Away With His Judgment.

Interstate Gravel Co., Inc.

Baton Rouge, La., July 20.

Editor Manufacturers Record:

In your "Letters from Our Readers" page I note you now say "These letters must not discuss the political question from the religious standpoint."

Now as to your sincerity in this statement I will refer you to your article "Governor Smith Is His Own Platform" in your July 5 issue. On page 66 of that issue, I read these words: "In the hands of those three, two Catholics and a Jew the reins are tightly held." You yourself have injected religious bigotry into the political discussion.

Your line quoted above reminds me of ten years ago when our company was drawn up for the presentation for D. S. C.'s. The proportion was the same, two Catholics, one Jew, no Protestants.

You never saw a Catholic or a Jew layman or minister working against the inclusion of military training in our State colleges, and if you have seen anything you have seen hundreds of Protestant laymen and ministers doing this very thing.

Catholics and Jews may be enemies of the country in peace time, but by God they have been in the past and they will be in the future its first and staunchest defenders in the time of war.

You are peddling cheap bigotry, and you may discontinue my subscription and any rebate that may be due me, you can add to the fund for purchasing a suitable monument to your deceased friend the Ku Klux Klan.

A. W. GRAHAM.

[Mr. Graham is entirely wrong in stating that the MANUFACTURERS RECORD has injected religious bigotry into the political discussion. It has not done so. The statement to which he refers about the three men who composed the campaign committee before the Houston Convention, was a part of a reprint of an article from Frank Kent, the political writer for the Baltimore Sun and published in that paper purely as a matter of news, and republished by us in the same spirit and without any intention whatever of reflecting either on Catholics or Jews. The Baltimore Sun is an ardent advocate of Governor Smith, and certainly it could not be accused of religious bigotry in publishing the statement which has called forth Mr. Graham's bitter denunciation of this paper.

The MANUFACTURERS RECORD has never believed in the Ku Klux Klan. It has denounced its operations and warned its members against its activities. We believe that it has been a distinct disadvantage to the country, even to the policies which it is supposed to represent.—Editor MANUFACTURERS RECORD.]

A Birmingham View of the Situation.

Birmingham, Ala., July 26.

Editor Manufacturers Record:

You are doing a patriotic service of untold value to the country in your masterly handling of the political situation today. You have the best wishes of the best element in this section.

DAVID D. GIBSON, JR.

"Not Ready to Turn Government Over to Tammany."

Jonesboro Building and Loan Association.

Jonesboro, Ark., July 19.

Editor Manufacturers Record:

Please find enclosed check for \$6.50 in payment of our renewal subscription.

We wish to congratulate your editor upon his stand in favor of prohibition and against Al Smith and his wet program. The people of the South are not going to support Smith even though he has been nominated by the Democratic party. We are not ready to turn this government over to Smith, Tammany Hall and their wet cohorts. Keep up the good work in your fine paper.

J. R. GREGSON, Secretary.

A Contrast As to the Two Forces at Work in This Campaign.

Atlanta, Ga., July 21.

Editor Manufacturers Record:

Your publication has done wonderful work for the South and for the Nation. It has been by far the most important factor in the development of the South.

Your fight on Al Smith if carried on will be the most effective thing you have ever done for the South, and if you put a good article on this subject on the front cover of every issue from now until election it would be the best thing you have ever done. And for the following reasons:

Hoover will do more downright constructive work for the South than has any politician in United States history. He may make some mistakes, but he knows the industrial and agricultural South and believes it is a national economic benefit to promote its development. And Hoover will work for national benefit rather than sectional. His make-up won't allow him to work otherwise.

I believe he is very much against liquor for both moral and economic reasons. He at least has no organized liquor, gambling and questionable political forces as his pals demanding anything. And he will at least do something to keep the Eighteenth Amendment in force.

Al Smith at heart is against the tariff and for unrestricted immigration; two factors, which if carried out according to his ideas, would wreck the country in four years.

Hoover may not have the great statesman's ability to shine as a mixer, etc., but this country whether we like it or not is absolutely an industrial, business and agricultural country. It has enjoyed great prosperity. It is now building enormous combinations in public utilities, railroads, automotive and other lines, and we require a man at this time who knows these things, who is independent of all alliances and can protect the public, as well as handle these large combinations so they can legitimately grow for the benefit of everybody. Al Smith has none of the requirements for such work. He might be all right, but his life and his connections, have never been of this type and the nation would be gambling on a *good fellow* to direct its course.

If Al Smith is elected, the whole liquor, gambling and crook forces of this country will take it as a signal that they are licensed to do as they please, and this country has too much disrespect for law now.

Further, my personal opinion is that if Smith is elected, we will find New York contractors now affiliated with Tammany, handling much of the Mississippi Flood Control work and all Federal contracts. That is their method of paying political debts in New York.

There are many other reasons. This is not idle talk on my part. I was three years in New York and was more or less in touch with the whole element of Democratic politics there, from Wall Street to rum runners. I am a Westerner by birth. My father's people were original settlers from Holland around where New York City now stands. My mother's people came from Virginia. My father always voted for principles and men instead of political parties; I have done the same. I voted for Wilson in both campaigns as I believed he was the man for those times. I travel constantly over the entire country and have made the right guess on presidential elections since Cleveland.

This election is a serious problem. If Hoover is elected we will be reasonably sure that the country will not go back, morally, or in a business way, including agriculture.

If Smith is elected we may go back in every desirable direction. Every Hoover editor in the United States, of every magazine and newspaper, should every day carry on the front page a few lines showing the comparison between the two forces, and do this until election. The great majority even of immoral and drinking people are really against those things if the problem is properly brought home to them.

The Smith combination are salesmen. They have an enormous potential following in religion, liquor, agriculture and so-called liberty loving people to play upon with their promises. I don't believe Smith can be elected, but the situation is so serious in case he should be that the whole press in favor of Hoover could turn the tide by front page editorials simply and directly stating a few facts every day. We should not overlook that great ability of Tammany to get out their whole voting strength at election time. They are past masters in this art.

RALPH B. FULTZ.

Henry Grady Hotel.

We Appreciate This Offer But There Is No Need for Help—The Manufacturers Record Has Been Expressing Its Own Views Since It Was Established in 1882.

Roanoke, Va., July 29.

Editor Manufacturers Record:

I have just finished reading my last week's copy of the MANUFACTURERS RECORD and found the "boosts" and "knocks" that you received on your editorial on a certain Democratic nominee for President very interesting, but have come to the conclusion that the subscriber who would cancel his subscription to your magazine over a thing of that kind is narrower minded than the editor who wrote it.

Should your cancellations continue to come in until you find it necessary to advance the subscription price to those who still subscribe, here is one that will pay more to keep a good magazine coming.

C. M. LEMMON.

Giving Too Much Credit to Heflin.

York, Pa., July 19.

Editor Manufacturers Record:

I congratulate you for the magnificent assistance you are giving to Tammany and Governor Smith. Keep the good work up. Every knock is a boost.

From a youngster up I have been reading about the "moonshiners of the south," as to how they defrauded the best government in the world out of its just revenue, and as to how they would slay this same Government's Federal officers, etc., and I am wondering if these are not now the same fellows who are spitting their hatred at the greatest Governor of the greatest State in the Union. How I wish that we Republicans of Pennsylvania might have had a man of the type of Governor Smith to offer our party.

Remember what I say: "Every knock is a boost." Look how Tom Heflin aided the Democrats in picking Governor Smith.

GEO. A. ODEWALT.

We Hope the Democratic Party Hasn't Gone All the Way.

Windfall, Ind., July 21.

Editor Manufacturers Record:

The Democratic party has gone to — and there is no resurrection in —. "Al Smith is the candidate and he is the platform," said Norman E. Mack. Smith's policy of modification is worse even than the saloon of old.

Smith has ruled and ruined the Democratic party, but he will never rule and ruin the United States. I ran 1200 ahead of my ticket for Congress. I am a lifelong Democrat and shall vote for Hoover. No use to vote for Democratic candidates who are voting for Smith.

The Democratic party has committed suicide.

See Galatians 6:9.

CHAS. FRANKLIN HOWARD.

IRON, STEEL AND METAL MARKET

Earnings Reported Favorable—Production Averages 75 Per Cent of Capacity—Effort to Secure Higher Prices Continues.

Pittsburgh, August 6—[Special.]—Steel company earnings reports for the June quarter have been favorable and tend to answer complaints of the steel producers six months and more ago about earnings being inadequate. There were very poor earnings in the December quarter, when there were both low prices and small tonnage. For the March quarter there was a large increase in tonnage and a slight increase in realized prices. For the June quarter there was a slight decrease in tonnage and a small increase in billing prices, also a slight decrease in production cost. The decrease in steel ingot production from the first quarter to the second was 2½ per cent. The Steel Corporation's shipments decreased somewhat less than this while Bethlehem's shipments increased.

For the third quarter, however, the steel industry will as usual have lighter shipments, seasonally, the decrease being 5 to 10 per cent. The effort to secure higher prices continues, methodically and slowly. Producers well recognize the difficulties sellers of any commodity have in these times in endeavors to secure higher prices.

The rate of steel production increased from the first half of July to the second half, but that was normal for the month, particularly with the disturbance of a holiday in the first half, and does not in itself presage continued increase. The average rate in July is estimated at slightly under 75 per cent, say 74 per cent, which compares with 76 per cent for June and 84 per cent average in the six months, the seasonal decrease being unusually small. The year continues to be ahead of the record year in production, for the same period, by about 3 per cent.

General indications are that steel production will remain for several months at about the present rate, in the neighborhood of 75 per cent. While usually there has been a seasonal gain after July, the consuming industries ran so well last month that there is not the same occasion for increase, while last year, which furnishes the latest precedent, showed no increase.

No finished steel product is weaker in price now than at the end of June, but at the same time there is but little if any visible stiffening in any line. Bars, shapes and plates are commonly quoted at 1.90c Pittsburgh by the larger producers, against 1.85c in June, but third quarter contracts were made at 1.85c so that buyers generally are getting their deliveries at old prices and there are sales by some mills at 1.85c. In wire products the market is slightly firmer now than before the formal or official reduction of early July, which was practically a nominal reduction, and this steadiness prevails in face of there being rather a light demand, particularly for nails.

Sheets and strips have been steady in the last few weeks. In both lines producers contemplate making announcement of advanced prices for fourth quarter delivery, but are making no open statements along that line at the present time, partly perhaps because the recent announcement of an advance in bars, shapes and plates to 2.00c for fourth quarter was not favorably received by buyers, who felt that in these days of hand-to-mouth buying the statement was rather a long range one.

Under date of August 1 the American Rolling Mill Company announced that on its deliveries of sheets on and after October 1 the discount for cash in ten days would be reduced from 2 per cent to one-half of one per cent. Obviously the

announcement was made with a belief that other producers of sheets will follow. A similar change in cold rolled strips is expected for the same date, and gossip in the trade is that tin plate, wire products and pipe are more or less likely to follow. On bars, shapes, plates and strips the cash discount has long been one-half per cent. Changes of this sort are altogether likely to be passed on by jobbers to their customers, it being jobbing practice to make sales on the same terms as purchases.

Seasonal Situation in Metals—Rise in Antimony Price—Increase in Supply of Tin.

New York, August 4—[Special.]—The metals have been active, considering the season of the year, but dull by comparison with other times. As a class, they are the most consistently strong in several months, which gives a hopeful outlook for the fall. Those which have not made definite price advances have at least held firmly, without any inklings of concessions.

The most drastic rise has been in the price of antimony, a trend which was first discernible a week ago. Prompt antimony sold at 10c per pound as against 9½c a week ago, and then reacted to 9¾c. The strength lies in the realization of a scarcity in this country following two or three months of very light imports.

The tin price advanced ¾c per pound on Wednesday, on the very day when it was announced that the world's visible supply had increased 1791 tons to 18,022 tons, the largest total in several years. This rise of prompt tin to over 48c per pound was due to the fact that these figures had already been discounted and to realization that world tin consumption is heaviest in history, despite record production and increasing supplies.

Although copper has been extremely quiet, prices have been very firm and some producers are predicting a revival of demand this week. Lead has been steady at 6c per pound, East St. Louis, and 6.20c per pound, New York, and the volume of business has been average, or a shade better. Zinc inquiry on Tuesday was the best in several months.

The picture of the steel industry continues bright, with operations increasing another 2 per cent, with second quarter earnings statements showing an increase over first quarter and with July sales the best for that month in years. There has been some hesitancy in the buying of raw materials by the automobile makers, but this is merely temporary. Expansions of public utility companies is providing a good outlet for copper and lead in the manufacture of cables.

Statistics for July on tin show that not only did the world's visible supply increase sharply but also Straits shipments for the month were 8707 tons, as against a normal of 6000 tons in a month. This means that large quantities of tin are on the way to the United States, though this may be absorbed readily in view of the heavy consumption. Copper statistics to be issued will probably show a slight gain in surplus stocks of refined metals after several declines to the lowest surplus in years.

The bulk of copper sales is now for September shipment. Producers have not formally opened books for October, but would sell for that month were inquiries received, though some producers state that they would sell sparingly for that period. A few carloads are still ordered for August delivery, but producers are for the most part sold out on that position. Export sales have averaged about 1000 tons daily, and in July were 38,000 tons, against 25,000 tons for home consumption.

The zinc price has been a bit wobbly and uncertain during

the past week. Heretofore, 6.20c, East St. Louis, has applied to prompt and 6.25c to August. With the arrival of August, there was doubt as to whether 6.20c would still apply to prompt and 6.25c carry over to September. As a matter of fact, sales were made at both prices. The higher activity in the steel industry gives promise of a better consumption of zinc in those circles.

There is no price trend in the lead market. London prices have been unusually steady and production and consumption appear well balanced throughout the world.

Pig Iron Basic Price Maintained—Steady Production and Shipment of Pipe—Preparations for Increasing Plant Capacity.

Birmingham, Ala., August 6—[Special.]—Statements that the pig iron market is unchanged, that sales are in small-lots still, deliveries very active and production being kept steady, does not present a better feeling being noted in the general iron and steel situation. The base price of pig iron, \$15.50 per ton, No. 2 foundry, is being maintained, indications pointing to a change upward when some difference is noted. Survey shows that iron melters in the home territory are still receiving business and adding to unfilled tonnages where this has been announced, in cast iron pressure pipe circles in particular. The steady production and the active shipment of pipe have had effect of practically cleaning yards of various shops of this district. The pipe makers announced that there is an adherence to the base price, \$34 to \$35 on six-inch and over sizes, in pressure pipe and that a large amount of pipe is yet to be made and shipped. In several of the machine shops and foundries there is more or less work coming in and specialty industries are also requiring iron.

While no business is reported as yet for fourth quarter delivery there is but little doubt expressed as to a steady need for pig iron indefinitely, in fact, there are some who believe that there will be warrant for the starting up of two or more blast furnaces. Preparations are well in hand for such an emergency, as it may be called. Gulf States Steel Company will be ready to resume operations in its rebuilt and enlarged blast furnace early in September. This furnace was blown out in June but material required to rebuild it had been assembled and everything was in readiness to start the work. Ninety days was estimated as the length of time that it would take to rebuild the iron maker. In addition to this development the Gulf States Steel will be ready with its improved rod mill and other mills where extensive work has been done. Elimination of steam power and installation of electric power has been accomplished in this industry and the steady business that is now coming in will be handled more expeditiously. As has been stated before, the blast furnace is being rebuilt with the J. P. Dovel appurtenances which has had much to do with modernizing iron-making in this district. The Sloss-Sheffield Steel & Iron Company will also be able to start up their No. 1 city furnace, the stack being rebuilt throughout with the Dovel patents. The new cast shed steel frame is up and other work finished. The furnace will have a production capacity of at least 500 tons of iron daily and the elimination of loss by flue dust and other savings will share in the cost of iron production. The Republic Iron & Steel Company, now operating but one blast furnace, will also be ready in September to blow in a second furnace. The Woodward Iron Company, with three blast furnaces now making iron, can be ready in early fall with the two Vanderbilt furnaces, one of them to be placed in condition within short while after market shows warrant for greater production.

The steel market is showing slight improvement still, momentum being gained slowly. It is estimated that the steel

mill operations in the Birmingham district is around 70 per cent capacity. Lighter shape of steel, wire and nails in particular, have been moving steadily, with sheet and plate picking up right along. Structural steel fabrication is mainly on smaller and local jobs. The Ingalls Iron Works Co. reports an order for 350 tons structural steel for the Dupont rayon plant at Old Hickory, Nashville, Tenn. Southern Steel Company has an order for 75 tons steel for kilns in the Saginaw, Ala., lime works. Inasmuch as this industry is being developed more now this class of work may take on some interesting conditions. Oil storage tanks are being produced in numbers in this district, the Tennessee Coal, Iron and Railroad Company furnishing plate. The Tennessee Company will start a heavy shipment of rail again this month for Japan and other shipments on the Warrior River barge service will be started this month, much miscellaneous shapes of steel for the Southwest now being estimated.

Slight improvement is noted in the coal mining industry. The coke market is also showing an upward trend with all by-product works in operations and one or two increasing the output.

The scrap iron and steel market is holding steady, the readjusted price list bringing about but little business. However, there is yet some old material to be delivered on old contracts. Resumption of operations in steel circles and the wonderful activity in the cast iron pressure pipe trade will bring about a greater demand for some of the principal items on the scrap iron and steel list, heavy melting steel and No. 1 cast in particular.

Quotations for pig iron and iron and steel scrap in the Birmingham district are as follows:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$15.50; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.00; iron of 2.75 to 3.25 per cent silicon, \$16.50; iron of 3.25 to 3.75 per cent silicon, \$17.00; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	\$15.00 to \$15.50
Old iron axles	15.00 to 15.50
Old steel rails	11.50 to 12.50
Heavy melting steel.....	10.25 to 10.50
No. 1 cast.....	13.00 to 13.50
Stove plate	12.00 to 12.50
No. 1 railroad wrought.....	9.50 to 10.50
Old car wheels	12.00 to 12.50
Old tramcar wheels	12.50 to 13.00
Machine-shop turnings	8.00 to 9.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.).....	13.00 to 13.50

500,000-Gallon Elevated Water Tank Completed at Monroe, La.

Monroe, La.—J. S. Schofield's Sons Co., Macon, Ga., recently completed a 500,000-gallon elevated water tank for this city. It is 54 feet in diameter, and the tip of its dome is 165 feet above the ground, and contains more than 237 tons of steel. The 12 supporting columns of structural steel are arranged in a circle 100 feet in diameter, tapering in at a considerable angle to connect with the tank, which is built to withstand a wind velocity of 100 miles per hour and bear a total weight of 4,500,000 pounds. The concrete bases of the supporting columns are sunk 8 feet into the ground and are 14 feet square at the bottom, tapering off to about 5 feet square above ground. The tank was erected in three months. A riser pipe, 5 feet in diameter, alone holds 15,000 gallons of water.

1,300,000 Cubic Yards Dredging at Galveston.

Galveston, Tex.—Bids will be opened August 27 at the office of the United States District Engineer, for dredging approximately 1,300,000 cubic yards of material in the channel from Galveston to Texas City. The work will cover maintenance dredging of a part of the Texas City channel to a projected depth of 30 feet below mean low tide, and a bottom width of 300 feet. The distance will be about 12,000 feet.

GOOD ROADS AND STREETS

\$11,000,000 CHESAPEAKE BAY BRIDGE APPROVED BY WAR DEPARTMENT.

10-Mile Structure to Connect Western and Eastern Shores of Maryland.

Revised plans for the construction of a bridge across the Chesapeake Bay from a point near Back River in Baltimore County to Hart and Miller's Island, and thence across the bay to a point in Kent County, have been approved by the War Department and the Board of Army Engineers. The bridge, to be built by the Chesapeake Bay Bridge Company of Baltimore, Stuart S. Janney, attorney and member of the board of directors, will be about 10 miles long and will cost approximately \$11,000,000. It will connect the eastern and western shores of the bay and was originally designed to cost \$10,000,000, but changes required by the War Department will increase the original estimate by \$1,000,000, it is said.

New plans provide for a 440-foot span, 840-foot span, 370-foot lift span, 840-foot span and a 440-foot span over the west channel, and for a 680-foot span, 370-foot lift span and a 370-foot span over the east channel. Both the fixed spans and lift spans will be 50 feet above water, the latter to lift vertically, giving a clearance of 140 feet above water when opened. It is understood that plans for the bridge have been completed and that construction will begin in the fall.

Over \$219,000,000 Federal Aid for Roads in Three-Year Period.

Improved highways, valued at more than \$219,000,000 will be the Federal Government's contribution to the cause of national progress in the next three years, according to an announcement by the American Road Builders' Association. A total of \$73,125,000 will be available to the States and Hawaii during each of the years 1929, 1930 and 1931. In order to take advantage of the Federal appropriations the States must spend a minimum of \$198,000,000 on Federal aid roads, in the three-year period, bringing the total expenditures for Federal aid roads alone to more than \$400,000,000.

"The annual contribution of the Federal Government constitutes less than 7 per cent of the cost of road construction and maintenance each year in the United States," the American Road Builders' Association says, "and it is less than five hundredths of one cent for each mile traveled by motor vehicles in 1928."

The Association emphasizes that improved highways are a national as well as a local asset, and therefore the Federal Government should not only make its periodic appropriations perennial, but should increase them far beyond the present limitations. To support its contention, it points out that there are still in excess of 2,000,000 miles of unimproved roads in the country.

The allocation of Federal road funds for the next three years has been made by the United States Bureau of Public Roads, and with the exception of 13 States in which more than five per cent of all land is non-taxable, the States must finance at least 50 per cent of Federal aid road costs, and in no case will the government contribute in excess of \$15,000 a mile.

The Federal apportionment for the various Southern States is as follows: Alabama, \$1,547,483; Arkansas, \$1,281,785; Florida, \$901,311; Georgia, \$1,980,015; Kentucky, \$1,421,029; Louisiana, \$1,019,282; Maryland, \$634,906; Mississippi, \$1,309,729; Missouri, \$2,404,347; North Carolina, \$1,715,910; Okla-

homa, \$1,749,066; South Carolina, \$1,059,533; Tennessee, \$1,612,012; Texas, \$4,502,576; Virginia, \$1,437,548; and West Virginia, \$793,796.

Materials Ordered for \$532,000 Florida Bridge.

Fort Myers, Fla.—The Central Station Equipment Company, Miami, recently awarded contract at more than \$532,000 for constructing the Caloosahatchee River bridge in Lee County, has placed an order with the Florida Portland Cement Company, Tampa, for 30,000 barrels of cement and with the Alexander Lumber Company, Tampa, for 400,000 feet of yellow pine timber. The structure will be 8141 feet long, to consist of one double leaf bascule span with a channel clearance of 80 feet; 4350 lineal feet of concrete pile trestle, and about 3711 feet of hydraulic fill approaches. It will carry a 24-foot roadway and two 4.5-foot sidewalks.

Arkansas Pushes Building of Roads and Bridges.

Little Rock, Ark.—A total of 3743 miles of highway construction and 656 bridges were let to contract by the State Highway Commission during the first construction year under the general highway law enacted in 1927, according to a report by the commission. From July 14, 1927, to July 1, 1928, 1674 miles of roads and 390 bridges have been completed.

\$2,425,000 of Road Work Let in Alabama.

Montgomery, Ala.—Contracts have been awarded by the State Highway Commission for the construction of 42 road projects to cost \$2,425,193, of which approximately \$500,000 will represent federal-aid funds. The work will cover more than 300 miles.

Bids August 15 on \$350,000 Bridge.

Fort Worth, Tex.—Bids will be received until August 15 for the construction of the proposed \$350,000 Nine-Mile bridge at Lake Worth, according to City Engineer Lewis, and work is expected to be started at once. The structure will be of concrete with an over-all width of 70 feet and a roadway of 36 feet.

Bibb County to Vote on \$1,000,000 Bonds.

Macon, Ga.—Bibb County Commissioners will call an election for November 6 on a bond issue of \$1,000,000, to include \$500,000 for schools and \$500,000 for roads. The Board of Education plans to build a grade school in the Log Cabin Heights section, one in the Ingleside section, junior high school for girls, enlarge Alexander 3rd School, build shop spaces in boys' high school, graded school on Nisbet lot, and make other improvements.

Louisiana Town Plans \$225,000 Paving Project.

Rayville, La.—Massena L. Culley, Jackson, Miss., has been engaged as engineer for a paving project for the Town of Rayville, to cost about \$225,000. Bids will be invited within two or three weeks.

Texas County Votes \$500,000 Road Bonds.

Fort Stockton, Tex.—A bond issue of \$500,000 has been voted by Pecos County, of which \$235,000 will be used to retire road district bonds and \$265,000 for the construction of additional roads. Howell Johnson is the county judge.

Contract for the construction of a hard-surfaced road, from Wilmington, N. C., to Carolina Beach, a distance of 13.5 miles, is expected to be awarded August 30.

TEXTILE

\$250,000 Buildings for Loom Manufacturing Plant.

Plans of the Standard Looms, Inc., of Spartanburg, S. C., Isaac Andrews, president, for the construction of a plant at Spartanburg for the manufacture of looms and complementary machinery, involve the erection of a foundry building 350 by 110 feet, according to Lockwood, Greene and Company, Inc., of Charlotte, N. C., engineers for the project. There will also be an assembling building 440 by 142 feet, to contain pattern shop, machine shop, carpentry shop and assembling room. Small buildings will be erected for blacksmith shop, pattern storage, boiler plant, dry kilns and other facilities. The foundry will be of steel frame construction with metal-clad roof and side wall sash, while the main manufacturing building will be of steel frame with brick and sash walls, wood floors and roof, the latter covered with tar and gravel. The buildings, including grading and railroad siding, will cost about \$250,000.

20,000-Spindle Silk Mill for Tennessee.

McMinnville, Tenn.—After a close competition with Virginia, North Carolina and Georgia towns, this city has landed a 20,000-spindle silk throwing plant to be established here by the Welwood Silk Mills, Inc., of New York City. McMinnville citizens co-operated in securing the industry by obtaining a lease assignment on an existing factory building suitable for the new enterprise. The output of the McMinnville plant will be used to supply silk to approximately 20 broad silk and ribbon mills of the company in Pennsylvania and New Jersey. Initial production is expected to begin about August 15, the plant to employ 250 operatives when running at full capacity. R. C. Leonard, industrial agent of the Tennessee Electric Power Company, Chattanooga, and Robert Henry, industrial agent of the Nashville, Chattanooga and St. Louis Railway, were active in negotiating for the plant.

Contracts for Scottdale (Ga.) Mill Extension.

Contract has been awarded to the Norwood Griffin Company, Atlanta, for the construction of an extension to the Scottdale Mills at Scottdale, Ga. The extension will be 249.8 by 104.10 feet, 2 stories, brick construction, with plank on steel beams and tar and gravel roof. J. E. Sirrine & Company, Greenville, S. C., are the engineers. The American Moistening Company, Providence, R. I., has contract for humidifiers and the General Electric Company, Schenectady, N. Y., for other electrical equipment.

Contracts for Silk Mill at Blackstone, Va.

Blackstone, Va.—The Klotz Silk Manufacturing Company, Inc., Clifton, N. J., awarded contract to R. W. Cobbs and R. Eddins, Blackstone, for alterations to a mill building here to cost about \$35,000. The building is expected to be ready for the installation of looms and complementary machinery by September 1 and the mill ready for operation a month later. Underwood & Co., Raleigh, N. C., are the architects and engineers.

Contract for Virginia Woolen Mill Addition.

The Virginia Woolen Company, Winchester, Va., W. B. Goode, engineer, has awarded a contract for an addition to its mill to J. B. Ferguson & Company, Hagerstown, Md. It will be 4 stories, 150 by 60 feet, mill type construction, and will be equipped with 2400 spindles and auxiliary machinery for a daily production of 4000 yards of woolen goods.

Aragon-Baldwin Mill at Whitmire to Be Enlarged.

Whitmire, S. C.—Contract has been awarded to the Gallivan Construction Company, Greenville, S. C., for constructing a four-story addition to the main mill building here of the Aragon-Baldwin Cotton Mills, Inc. The addition will be 120 by 135 feet, of timber and steel construction. J. E. Sirrine & Company, Greenville, are the engineers.

Hosiery Mills Organized at Chattanooga.

Chattanooga, Tenn.—The Alton Park Hosiery Mills, capitalized at \$50,000, have been organized here for the establishment of a full-fashion hosiery manufacturing plant. One unit of the mill will be erected now and equipped with Reading 42-gauge full-fashion knitting machines, with other units to follow. H. T. Bryan, Sr., Tarboro, N. C., and A. M. Bryan Chattanooga, are principals in the project.

Officers of New Virginia Textile Firm Named.

Martinsville, Va.—Organized about three months ago by New York and Martinsville interests with a capital stock of \$250,000, the Southern Silk Garment Corporation plans to manufacture women's underwear from cloth produced by the Martinsville Silk Corporation. At a recent meeting of stockholders, permanent officers were elected as follows: Fred Newmark, New York, president; C. J. Huber, vice-president, and Harry Kaplan, secretary-treasurer.

60 Dwellings for New Alabama Cotton Mill.

Albertville, Ala.—Material is being assembled for the erection of 60 dwellings here for the new cotton mill to be erected by the Saratoga-Victory Mills Company, Inc., a subsidiary of the American Manufacturing Company, of Brooklyn, N. Y. The company will build a 16,000-spindle mill, plans having been prepared by Robert & Company, Inc., of Atlanta.

\$60,000 Improvements for Rountree Cotton Mills.

Meridian, Miss.—Plans are being made for improvements and extensions to the buildings and equipment of the Rountree Cotton Mills here at a cost of \$60,000. With the addition of a dye plant, the mill will produce denims, chambrays, cottonades and hickory stripes. The plant is already equipped with a raw stock dyeing plant.

Organizing Royston, Ga., Spinning Mill.

Royston, Ga.—Pending receipt of a charter for the Royston Spinning Mill, details of organization are being handled by a committee composed of Sam Bowers, B. H. Holbrook, G. A. Adams and Dr. S. D. Brown, all of Royston, and J. M. Battson, Lavonia. The mill will be housed in a 300 by 75-foot building and will operate 6142 spindles, producing fine yarns.

New Weave Shed for Pendleton Mill.

Autun, S. C.—The Pendleton Manufacturing Company has awarded contract to the C. M. Guest Company, Anderson, S. C., for the erection of a weave shed at its mill here to house additional looms. Work is expected to begin soon. J. E. Sirrine & Company, Greenville, are the engineers.

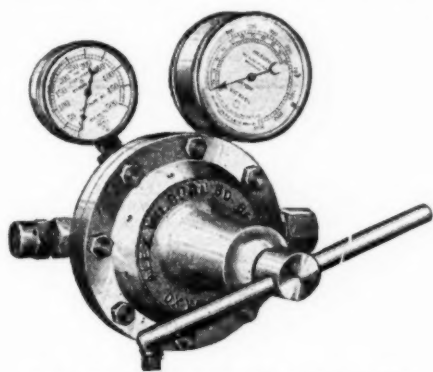
Griffin Hosiery Mills to Build.

Griffin, Ga.—A new hosiery mill will be erected here by the Griffin Hosiery Mills for the production of full fashioned, all silk, fine gauge women's stockings. The plant will have a capacity of 700 dozen pairs weekly and is expected to be ready for operation by October 1.

NEW AND IMPROVED EQUIPMENT

Milburn "Super Master."

The accurate reduction of varying gas pressures to the pressure required for the welding and cutting art and for industrial, scientific, medical and Government purposes, is a constant problem, due to the increased pressures of gases, demands for greater volumes and for greater accuracy of



FOR REGULATING GAS PRESSURES.

delivery. The new Milburn "Super Master" regulator has been designed to supply the demand for a regulator for operations where a large volume of gas or a great number of outlets are to be controlled.

As described by the Alexander Milburn Company,

Baltimore, Md., the bonnet is of sturdy bolted construction and an added feature is a safety blow-off valve. The diaphragm extends to the outer circumference of the regulator and is secured by the same bolts which secure the bonnet. The "Super Master" regulator is equipped with 3000-pound initial gauges and 500-pound delivery gauges. The floating operating pin is of monel metal and the diaphragm is of a special bronze. An eight-inch, heavy steel key affords leverage for highest pressures. The main operating parts comprise pin, nozzle and seat-carrying sleeve and are immediately available for examination, cleaning or removal.

The "Super Master" is said to eliminate danger of freezing even in extremely low temperatures.

Koppel Air Dump Car.

The Koppel Industrial Car and Equipment Company of Koppel, Pa., a subsidiary of the Pressed Steel Car Company, recently completed an improved design, all steel, 100,000-pound, 30-cubic yard capacity automatic rolling trunnion air dump car, class RTD-30. The car weighs 66,000 pounds and has a length inside of body at top of 34 feet and width of 9 feet 3 inches. The length inside at bottom is 32 feet 4 inches and the width 8 feet 10½ inches, and the depth inside of body is 2 feet 8½ inches. The length over striking plates is 38 feet 4 inches, the overall width 10 feet 3¾ inches, and the height 7 feet 9½ inches. The dumping angle of the body is 45 degrees, the wheels are 33 inches ARA chilled iron, the axles

5½ inch and 10 inch ARA chilled iron, the axles 5½ inch and 10 inch ARA and the gauge is 4 feet 8½ inches.

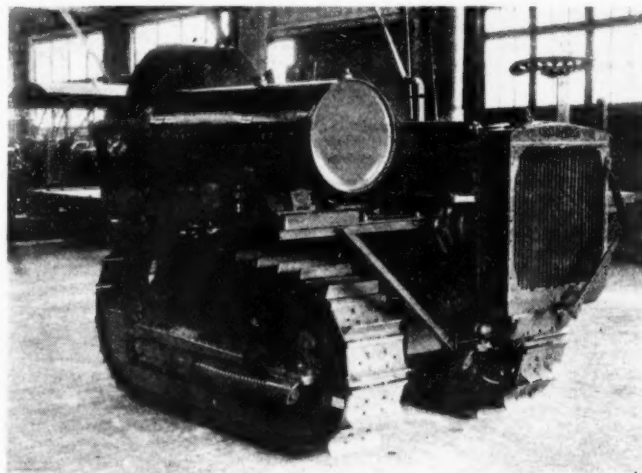
A feature of the design is that the entire weight of the car body and lading is carried in stable equilibrium directly on the center sills without the use of trunnions. This is accomplished by rolling diaphragms built into the bolster constructions located centrally on truck centers and by four rolling diaphragms, one located at each cross bearer supporting the air cylinders.

The direct bearing surface between the body and underframe members extends 25 inches on either side of the center of the car, and when air is applied in the lifting cylinders the car body rolls from a point 25 inches from the center until the upper stops at the end of the bolsters and diaphragms engage the lower turning seats attached to underframe. Another feature is an interlocking cast steel stop device just back of each underframe bolster to prevent transverse and longitudinal movement of the body due to rough handling, preventing damage to the piston rods and other parts.

The dumping of the car is controlled by an indicator valve, an operating valve and a control valve.

Winch on "Caterpillar" for Borneo.

The Hopper winch, manufactured at Bakersfield, Cal., and designed for use with the "Caterpillar" tractor, was originally developed for the oil fields, but now is used also in logging,



TO WORK IN THE EAST INDIES.

cable stringing and industrial work where drawbar and belt work must be supplemented by drum. The outfit pictured was exported to Borneo, Dutch East Indies, famed for its rubber, sugar and copra production.



ALL-STEEL DUMP CAR, WITH 100,000 POUND, 30-CUBIC YARD CAPACITY.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Md., Salisbury—Starlighters Corp., Charles S. Bayer, Jr., Pres., 735 Sansome St., Philadelphia, Pa., construct and operate airport to be known as Hebron Airport; renovate dwelling at field for personnel and for headquarters of Aero Club, also erect \$10,000 public building. 7-19

Okla., Tulsa—Tulsa Airport Corp. let contract to B. Russell Shaw Co., Inc., 810 Olive St., St. Louis, Mo., to design municipal air terminal; first hangar will be 80x120 ft., with 20 ft. high openings at each end; have offices, complete shop facilities and natural gas heat; also erect 2-story pilots' quarters; air terminal building consisting of field manager's office, offices for airline operators, waiting room, baggage, mail and express rooms, meteorological office, control tower, restaurant and roof garden.

Tex., Brownsville—International Derrick and Equipment Co., Columbus, Ohio, has contract for municipal hangar; conc. work and building erection sub-let to Homer L. Fitch.

Tex., Corpus Christi—Texas Airplane Corp., W. C. Maus, Pres., San Antonio, may establish plant here.

Va., Waynesboro—Valley Airport, Inc., capital \$25,000, chartered; C. C. Loth, W. E. Moore.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Huntsville—State Bridge Corp., Montgomery, may let contract in Oct. for Tennessee River Bridge, connecting Whitesburg Ferry with Lacey's Spring Pike.

Ala., Huntsville—Maj. Lewis H. Watkins, Dist. U. S. Engr., will hold public hearing Aug. 29 on application of Alabama Bridge Corp., Montgomery, for permits to construct bridges across Tennessee River at Guntersville and Whitesburg. 6-7

Ala., Scottsboro—Maj. Lewis H. Watkins, Dist. U. S. Engr., will hold public hearing Aug. 28 on application of Alabama State Bridge Corp., Montgomery, for state-owned bridge across Tennessee River, near Upper Section ferry, 3½ mi. southeast of Scottsboro; fixed 7-span, through truss bridge, pier supported, conc. approaches, on right or north bank; navigation span, second one from right bank, has horizontal clearance of 300 ft. normal to current, 70.8 ft. vertical clearance above low, and 40 ft. above extreme high water. 6-7

Ark., Hot Springs—State Highway Comm., Little Rock, plans bridge across Ouachita River, on Mt. Ida road, Highway No. 6, Garland County; replace bridge destroyed in 1927 flood.

Fla., Dunnellon—State Road Dept., Tallahassee, completing plans for conc. bridge over Blue Run, out of Dunnellon, on Dunnellon road; will request permit from War Dept.

Fla., Palm City—War Dept., Washington, reported, approved plans Martin County Comms., Stuart, to re-construct bridge across South Fork, St. Lucie River, Palm City, under State law. 5-3

Fla., Tampa—City, Mayor McKay, plans expending \$15,000 to repair Lafayette St. Bridge, across Hillsborough River; C. H. Gerald, in charge.

Ga., Columbus—Muscogee County Comm., considering underpass at railroad tracks, near Brown St. and Fort Benning road.

Kentucky—See Roads, Streets, Paving.

Ky., Henderson—Kentucky, Gov. Flem D. Sampson, Frankfort, and Indiana, Gov. Ed. Jackson, Indianapolis, plan \$4,000,000 toll bridge over Ohio River, Henderson, Ky., to Evansville, Ind.; Kentucky to issue bonds

under provisions of Murphy Toll Bridge Act; bonds to be redeemed by tolls; Kentucky State Highway Comm., Ben Johnson, Chmn., expected to supervise construction.

Ky., Richmond—State Highway Comm., Frankfort, received low bid from Phelps Construction Co., Somerset, \$15,596 for overhead crossing of L. & N. R. R., Richmond-Winchester road, Red House.

Maryland—State Roads Comm. received low bids for 2 bridges. See Roads, Streets, Paving.

Miss., Aberdeen—Monroe County plans conc. bridge across Tombigbee River, east of Aberdeen, Highway 45, Road Dist. 4, cost \$110,000. See Financial News. 7-12

Miss., Columbus—See Roads, Streets, Paving.

Miss., Lucedale—George County, reported, granted franchise to Harry E. Bovay, 725 Dermon Bldg., Memphis, Tenn., for Wilkerson Ferry Bridge.

Mo., St. Louis—City, Bd. of Public Works, received low bid from J. J. Bailey, 6180 Pershing Ave., St. Louis, \$86,631, for 400-ft. rein. conc. bridge over River Des Peres, Alabama Ave.; from Excavating Co., Central Natl. Bank Bldg., \$57,906, for fills for eastern and western approaches to Arsenal St. viaduct. 7-19

Okla., Jay—Delaware County, D. L. Chandler, Clk., receives bids Aug. 13 for 4-span, 85-ft. rein. conc. bridge, \$26,160; T. P. Clouts, Engr., Muskogee.

South Carolina—State Highway Comm. receives bids for 3 structures. See Roads, Streets, Paving.

Tennessee—Dept. of Highways and Public Works, Nashville, plans receiving bids before Mar. 1, 1929, for \$500,000 bridge over Tennessee River, Knoxville; \$400,000 bridge at Kingston, Roane County.

Tenn., Knoxville—City, Otto Roehl, Mgr., plans \$1,000,000 Henley St. Bridge over Tennessee River. See Financial News. 6-14

Tenn., Knoxville—City, Otto Roehl, Mgr., plans letting contract in Nov. for \$750,000 state bridge over river at Concord; Frank Webster, East Tennessee Highway Chief.

Tenn., Sneedville—Maj. Lewis H. Watkins, Dist. Engr. of U. S. War Dept., will hold public hearing Aug. 14 on application of Dept. of Highways and Public Works, Nashville, for state-owned bridge across Clinch River, Sneedville, Hancock County; fixed one-span through truss bridge, pier supported, conc. girder approaches; navigation span over center of stream.

Tex., Dallas—Dallas County, Charles E. Gross, Auditor, receives bids Aug. 13 for 20-ft. clear roadway conc. bridge, over Gravel Clough, near Wilmer.

Tex., Houston—City, W. A. Moore, Sec., received low bid from McDonald Engineering Co., \$32,740, for rein. conc. White Oak Bayou Bridge; 40-ft. roadway, 6-ft. walkway.

Tex., Port Arthur—Maj. Milo Fox, U. S. Dist. Engr., Galveston, will hold hearing Aug. 17 on application of City of Port Arthur, J. P. Logan, Mayor, for Sabine-Neches Canal Bridge, connecting Port Arthur and Pleasure Pier, having 200-ft. horizontal clearance, as originally planned; Howard, Harrington & Ash, 1012 Baltimore Ave., Const. Engrs., Kansas City, Mo. 7-26

Va., Prince George—See Roads, Streets, Paving.

Contracts Awarded

Ark. Kingston—Williamson & Williamson, Batesville, has contract, \$14,000, for 297-ft. King's River Bridge on Kingston-Berryville Highway.

D. C., Washington—Phoenix Bridge Co., Phoenixville, Pa., has contract for 1500 tons

struct. shapes in addition to 250 tons previously awarded for Arlington Memorial Bridge. 7-26

Fla., Fort Myers—Dudley Bar Co., Chattanooga, Tenn., has contract, through Central Station Equipment Co., Seybold Bldg., Miami, for 1400 tons conc. bars for Caloosahatchie River Bridge. 6-28

Fla., Fort Myers—Florida Portland Cement Co., Tampa, has contract for 30,000 bbl. of cement for Caloosahatchie River Bridge, Road 5, Lee County; Alexander Lumber Co., 13th St. and Second Ave., Tampa, has contract for 400,000 ft. yellow pine; Central Station Equipment Co., Seybold Bldg., Miami, has contract for construction. 6-28

Texas—State Highway Comm. let contracts for 7 bridges and drainage structures. See Roads, Streets, Paving.

Tex., Fort Worth—Virginia Bridge & Iron Co., Roanoke, Va., has contract for 265 tons struct. shapes for Texas & Pacific R. R. Bridges, Fort Worth.

Fla., Miami—Dudley Bar Co., Chattanooga, Tenn., has contract through I. E. Schilling Co., 125 N. E. Sixth St., for 400 tons conc. bars for bridge at Miami.

Fla., Miami—Tampa Shipbuilding and Engineering Co., Ernest Kreher, Gen. Mgr., 100 S. Water St., Tampa, has contract for 850 tons steel and machinery, and 1000 yd. conc. and counter-weight for bascule span and approaches of First St. Bridge. 6-14

Fla., Stuart—Tampa Shipbuilding and Engineering Co., Ernest Kreher, Gen. Mgr., 100 S. Water St., Tampa, has contract for 400 tons steel superstructure for bridge between Stuart and Palm City. 5-24

Ky., Combs—State Highway Dept., Frankfort, let contract to Atlantic Bridge Co., Inc., Jefferson Bldg., Greensboro, N. C., \$22,802, for conc. substructure for bridge over North Fork, Kentucky River, Hazard-Hayden road.

La., Shreveport—T. P. Johnson, Dallas, Tex., has contract, \$30,000, for rein. conc. and steel grade separation structure over Hotchkiss St.

Tex., Houston—City, W. A. Moore, Sec., let contract to Utilities Construction Co., 4713 Greely St., for culvert on McGregor Way.

Canning and Packing Plants

Tex., San Benito—Texas Citrus Fruit Growers Exchange, Red Melden, Mgr., soon begin construction of \$100,000 packing plant. 6-28

Clayworking Plants

Fla., Daytona Beach—Flagler Clay Holding Co., H. E. Black and E. C. Toy, Financial Mgrs., contemplates establishing plant in Flagler County for manufacture of common and face brick, drainage tile and pottery. See Want Section—Machinery and Supplies.

Tex., Fort Worth—Fort Worth Tile and Pottery Co., capital \$100,000, incorporated; T. C. Terrell, Medical Arts Bldg.

Coal Mines and Coke Ovens

Ark., Van Buren—Fort Smith-Jenny Lind Coal Co., incorporated; D. H. Wilburn, Roy Milligan.

W. Va., Nuttallburg—New River Coal Co., Mt. Hope, acquired mine, plant and equipment of Fordson Coal Co., at Nuttallburg, Fayette County.

Cotton Compresses and Gins

Ark., Forrest City—Widener Gin Co., T. A. Buford, install cleaners, saw and electric power plant.

Ark., Magnolia—J. L. Jean erecting 4-stand gin, electrically driven.

Ark., Magnolia—Walter Connelly Gin Co., Tyler, Tex., erecting cotton gin on E. Calhoun St.

La., Ridge—Ridge Cotton Gin Co., Inc., capital \$12,000, incorporated; A. O. Cunningham.

Miss., Bassfield—Culley Williams Power Co., Jackson, acquired Faler Brothers gin.

Okla., Hollis—Dr. J. E. Jones, E. A. Berry, interested in erection \$80,000 cotton compress.

Tenn., Lexington—National Cotton Seed Products Corp., New York, acquired Lexington Gin Co.'s plant.

Tex., Jayton—Farmers' Co-Operative Society acquired N. G. Davis' gin; will be operated by D. Barton and J. H. Montgomery.

Tex., Nixon—Planters Mill and Gin Co., incorporated; J. A. Wicke, J. M. Hinton.

Tex., Rio Grande—Guerra Gin Co., capital \$20,000, incorporated; H. P. Guerra, B. H. King.

Cottonseed-Oil Mills

Ark., Pine Bluff—Fred H. Moulton, Mgr., Pine Bluff Cotton Oil Mill, expending \$50,000 on improvements to plant, including linter house of 1000 bale capacity, hull house, 1000 ton capacity, install 2 cotton oil presses; E. S. Royce, Arkansas Natural Gas Bldg., has contract for frame and conc. work; Muskogee Iron Works, for steel.

La., Monroe—Union Oil Mill Co. construct \$17,000 steel building on Trenton St.

Drainage, Dredging and Irrigation

Ark., Osceola—Bd. of Commrs. of Sub-Dist. No. 4 of Grassy Lake and Tryonza Drainage Dist. No. 9, Mississippi County, let contract to Otto Kochtitzky Co., Cape Girardeau, Mo., at \$134,214 for drainage and flood protection work, will excavate 1,180,000 cu. yds. of material; Morgan Engineering Co., Engrs., Goodwyn Institute, Memphis, Tenn. 7-19

Fla., West Palm Beach—Lake Worth Inlet Comm. soon call for bids for removing sand bar at Lake Worth inlet (Port of Palm Beach) and deepening channel and turning basin to 18 ft.; remove approximately 145,000 yds. of sand and boulders, dredge channel and basin and deepen bar to 20 ft.; bids include 3 estimates, for removal of bar, deepening channel and basin, and for project as whole.

Louisiana—Dist. Engr., U. S. Engr. Office, Poland and Dauphine Sts., New Orleans, receives bids Sept. 3 for dredging Little Cailou Bayou. See Want Section—Bids Asked.

North Carolina—U. S. Engr. Office, W. A. Snow, Dist. Engr., Wilmington, receives bids Sept. 4 for dredging in Shallotte River. N. C. See Want Section—Bids Asked. 7-26

Tex., Brownsville—Los Fresnos Water Improvement Dist. No. 10, V. L. Conrad, Engr., plans bond issue soon for irrigation system.

Tex., Galveston—War Dept., U. S. Engr. Office, receives bids Aug. 27 for dredging channel from Galveston Harbor to Texas City. See Want Section—Bids Asked.

Tex., Mission—Mission Irrigation Dist. contemplates \$3,000,000 bond issue for concrete canals in district.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Birmingham—Virginia Bridge and Iron Co., has contract, 600 tons fabricated struct. steel for power plant for Alabama Power Co.

Ala., Millport—Dixie Construction Co., Birmingham, constructing high power line, Millport to Reform for Alabama Power Co., Birmingham. 6-14

Ala., Mount Vernon—A. B. Jeffries, Citronelle, granted permission by Alabama Public Service Comm., Montgomery, for electric power plant.

Ark., Arkadelphia—Arkansas Power and Light Co., Little Rock, construct 13,000 volt transmission line here to Sparkman, 25 miles.

Ark., Norman—Black Springs Lumber Co., Black Springs, granted franchise, establish power plant and distribution system.

Fla., Orlando—Utilities Comn. receives bids Aug. 13 for addition to power plant. See Want Section—Bids Asked.

Ga., Decatur—City Comsn. plans white way installation.

Kentucky—American Utilities Co., 600 N. 2d St., Harrisburg, Pa., Samuel W. Fleming, Jr., Pres., offering \$1,000,000 first lien and refunding gold bonds, 6%, Series A, through J. G. White & Co., Inc., Parsley Bros. & Co., and Paul & Co.; company through its subsidiaries supplies electric light and power, gas, water and ice to 87 communities in Kentucky, Missouri, Arkansas, Louisiana, Tennessee, Oklahoma and Texas.

La., Lafayette—City voted against sale of water and light plant. 8-2

Miss., Sardis—Mississippi Power and Light Co., Jackson, has survey completed for 110,000 volt transmission line from Como to Tunica; construction by Phoenix Utility Co., 2 Rector St., New York, construct sub-station at Como.

N. C., Blowing Rock—R. M. Mead, 11223 Ashbury Ave., Cleveland, Ohio, acquired Blowing Rock Power and Light Co.'s plant, including 6 mile transmission line, telephone line and hydro-electric plant.

N. C., New Bern—See Water Works.

N. C., Tarboro—Town receives bids Aug. 17 for Diesel or oil engines. See Want Section—Bids Asked.

Okla., Ada—State Bd. of Control, Oklahoma City, let contract to Grinnell Heating Co., Pioneer Tr. Bldg., Kansas City, Mo., at \$30,000 for power plant building; Layton, Hicks & Forsythe, Archts., Braniff Bldg., Oklahoma City.

Okla., Alva—Woods Light and Power Co., capital \$500,000, incorporated; Tom W. Garrett, E. J. Millard.

South Carolina—Merger, reported, of Edison Public Service Co., R. A. Easterling, V.-P., Denmark, with South Carolina Power Co., Charleston.

Tenn., Cookeville—City voted \$100,000 bonds for improvements to hydro-electric plant at Burgess Falls on Falling River. 7-19

Virginia—Virginia Public Service Co., Charlottesville, applied to Federal Power Comn., for license for partly constructed transmission line 6 miles long between Balcony Falls and Buena Vista, in Rockbridge County; line to connect southern and western divisions of company.

Va., Charlottesville—West Virginia Hydro-Electric Co., incorporated; Thomas Richardson, L. W. Van Bibber; will issue 25,000 shares of stock of no par value.

Fertilizer Plants

Ala., Decatur—Southern Cotton Oil Co. plans fertilizer building and storage plant; expend \$25,000 in improvements to mill and cotton gin.

Fla., Jacksonville—Wilson and Toomer Fertilizer Co., Bayless W. Haynes, Pres., 772 W. Bay St., will construct additional unit to plant; 520x200 ft.; cost \$75,000.

Foundry and Machine Plants

S. C., Spartanburg—Standard Looms, Inc., Isaac Andrews, Pres., 519 E. Main St., will have plans completed and ready for distribution about Aug. 10 by Lockwood, Greene & Co., Engrs., Charlotte, N. C., for plant for manufacture of looms and complementary machinery. 7-26

Tex., Dallas—Crane Co., 836 S. Michigan Ave., Chicago, erect branch factory; 1 story and basement; J. A. Pitzinger, Archt., 1101 S. W. Life Bldg.

Gas and Oil Enterprises

Ark., Fayetteville—Moran Corp., Shreveport, La., negotiating for gas franchise; will construct artificial gas plant.

Ark., Jonesboro—City Gas Co. will construct artificial gas plant on Johnson Ave.

Fla., DeLand—Charles B. Hawley Engineering Corp., Munsey Bldg., Washington, D. C., advises Sanford Gas Co. plans building gas main Sanford to DeLand; DeLand Gas Service Co., will construct distribution system in town of DeLand; contracts covering construction of line and distribution system and for purchase of material and equipment will soon be let.

Ky., Louisville—Watsonia Oil Co., capital \$250,000, incorporated; Simon G. Hedrick, John C. Ramey.

La., Baton Rouge—Capital City Petroleum Products, Inc., chartered; B. R. Carney, M. E. Humble.

La., Crowley—Reliable Oil Co., Inc., capital \$15,000, chartered; R. N. Hines, Moise Hantz.

La., Good Hope—New Orleans Refining Co., United Fruit Bldg., New Orleans, local

subsidiary of Royal Dutch Shell Co., acquired 40 acres for possible expansion.

La., Shreveport—Rainbow Gasoline Corp., Inc., chartered; D. P. Hamilton, 3214 Central Blvd.

La., Urania—Belchie & Laskey, Slatery Bldg., Shreveport, securing right of way for natural gas pipe line from Alto to Franklin, St. Mary Parish, 200 miles.

Md., Havre de Grace—Havre de Grace Gas Co., applied to Public Service Comn., Baltimore, for permission to lay gas lines from Havre de Grace to Belair; supply gas to Aberdeen, Churchville and Forest Hill.

Mo., Maryville—Consumers Oil Co., capital \$25,000, incorporated; Joseph W. Cornell, O. J. Willhoite.

N. C., Hickory—City granted gas franchise to Great Northern Utilities Co., 3933 Drexel Blvd., Chicago, Ill., construct gas plant. 6-7

Oklahoma—Midwest Gas Co., 302 S. Cheyenne St., Tulsa, construct gas line to supply Watonga, Custer City, Thomas, Okeene and Fairview; applied to Canton for franchise, subject to vote Aug. 14.

Oklahoma—Consolidated Gas Utilities Co., Logan W. Cary, Pres., Oklahoma City, let contract to Williams Bros., Inc., 302 S. Cheyenne St., Tulsa, for natural gas pipe line from Amarillo, Tex., gas fields to Enid, 165 miles, cost \$4,500,000, including distribution systems in 10 towns in Oklahoma; Youngstown Sheet and Tube Co., Youngstown, O., has contract for 25,000 tons steel pipe. 6-28

Okla., Mooreland—See Tex., Higgins.

Okla., Muskogee—City votes Aug. 13 on granting gas franchise to Municipal Gas Co.

Okla., Tonkawa—Tonkawa Petroleum Co. plans expending \$75,000 for rebuilding burned portion of plant.

Okla., Wewoka—Cameron Royalties Corp., capital \$10,000, incorporated; Don Cameron, Wewoka; Tom Porter, Eufaula.

Tenn., Morristown—Gulf Refining Co. erect supply depot, 4 gas tanks, storage warehouse, garage and office; Jesse Bye, Local Mgr.

Tenn., Sparta—White County Oil Co. construct oil tanks in W. Sparta.

Texas—Directors of Galena Signal Oil Co., Franklin, Pa., vote Oct. 1 on plan of reorganization and sale of certain assets to Texas Corp., 17 Battery Place, New York; will retire by redemption or otherwise all outstanding 7% debenture bonds, totaling \$3,646,100 and all first mortgage 6% bonds of Galena Signal Oil Co. of Texas totaling \$1,177,000.

Tex., Amarillo—Stinnett Gas Co., capital \$22,000, incorporated; O. P. Jones, 1620 Tyler St.

Tex., Amarillo—U. S. Dept. of Commerce, Bureau of Mines, R. A. Cattell, Ch. Engr., Helium Div., Washington, let following contracts for \$1,000,000 helium plant; James T. Taylor, First Natl. Bank Bldg., Fort Worth, general contract for buildings; Chicago Bridge and Iron Co., Chicago, Ill., gas and water tanks; C. & G. Copper Co., Mount Vernon, Ohio, compressor; W. D. Muncy, Amarillo, well drilling; Amarillo Oil Co., controlling natural gas in vicinity, will pipe its product to Government plant, where non-burnable helium will be extracted and burnable portion returned to company for regular commercial use; building designed for future expansion; portion of buildings will be steel framed, others of mill type timber framing; walls of hollow tile construction and corrugated fireproof sheetings; mechanical equipment will consist of gas engines, gas compressors and apparatus for low temperature liquefaction of gas; some of equipment will be provided by moving spare units for helium plant at Fort Worth, other parts will be new; Texas Cyclone Fence Co., 1316 E. Front St., Fort Worth, has contract for fencing plant site. 7-5

Tex., Beaumont—A. M. Mutersbaugh, Nagem Bldg., Lake Charles, La., has contract for extending docks on Neches River of Yount-Lee Oil Co., San Jacinto Life Bldg.; increase loading capacity 9500 bbls. per hr. to 20,000 bbls.

Tex., Beaumont—Atlantic Refining Co., 260 S. Broad St., Philadelphia, Pa., votes Oct. 15 on increasing common capital stock \$50,000,000 to \$100,000,000, change par value from \$100 to \$25; company constructing oil line to Atreco. 7-12

Tex., Boling—Houston Gulf Gas Co., Esperon Bldg., Houston, construct 10-in. gas line from Whitepoint to Boling to supply Union Sulphur Co. with gas; cost \$90,000.

Tex., Higgins—Citiles Service Gas Co., 60 Wall St., New York, plans constructing gas compressor station, 5000 h. p. capacity; enlarge present stations at Mooreland, Okla., and Pampa, Tex.

Tex., Houston—South Texas Production Co., capital \$150,000, incorporated; M. B. Banks, H. O. Taylor.

Tex., Marshall—Dixie Gulf Gas Co., distributing subsidiary of Moody-Seagraves Co., Inc., Esperson Bldg., Houston, acquired properties owned and operated by Industrial Gas Co.

Tex., Port Arthur—Nederland Oil and Development Co., incorporated; Perry Pace, 3437 Seventh St.

Tex., Sweetwater—Sweetwater Refinery, J. A. Johnson, Mgr., plans laying pipe line, Sweetwater to Noodle's Creek, 4 or 6-in. pipe.

Tex., Wichita Falls—J. J. and Meyer Taxman acquired Miller Refining Co.; plan improvements.

Tex., Wichita Falls—Texland Oil Co., capital \$50,000, incorporated; M. A. Chambers, 711 Baylor St.

Tex., Woodsford—Arkansas Oil and Gas Co., capital \$25,000, incorporated; B. Wilkinson, J. S. Dunlap.

Ice and Cold-Storage Plants

Ala., Calera—J. G. Wade, Clanton, erect ice plant with 10 ton capacity.

Land Development

Ala., Huntsville—Monte Sano Construction Co. develop 102 acres for 18 hole golf course; erect club house, etc.

Fla., Canal Point—Southern Sugar Co., subsidiary of Celotex Co., 645 N. Michigan Ave., Chicago, Ill., will establish town for employees; erect about 62 buildings, including motion picture theater, community house, etc.; will use about 1,000,000 ft. of timber.

Fla., Jacksonville—Rodman Land Co., incorporated; G. W. Trout, 334 E. Forsyth St.

Fla., Jacksonville—H. K. S. Corp., incorporated; L. W. Alexander, 2864 Downing Ave.

Fla., Kissimmee—Dr. P. Phillips & Son, 70 W. Robinson St., Orlando, clearing 80 acre for citrus grove on Paradise Island in Lake Tchopkaliga.

Fla., Miami—Shady Grove Farms, Inc., chartered; E. L. Semple, Congress Bldg.

Fla., Orlando—Bumby Grove, Inc., chartered; C. M. Slaughter, 1103 E. Washington St.

Fla., St. Petersburg—Blair & Co., incorporated; F. V. Blair, E-836 16th Ave., N.

Fla., Tampa—Hillsborough County School Bd. plans development athletic fields at Hillsborough and Plant High Schools; B. M. Sullivan, Engr., 510½ Franklin St.

Fla., West Palm Beach—Reburg Corp. incorporated; Horace Van Metre, First American Bk. Bldg.

Ga., Atlanta—City authorized construction of 9 hole golf course at John A. White park.

Ga., Atlanta—East Lake Country Club plans enlarging golf course, acquired 140 acres; Donald Ross, Golf Archt., Chicago and Southern Pines, N. C.

Ga., Savannah—Oaks Park Corp., capital \$100,000, incorporated; M. Wilensky, 2270 Barnard St.

La., Alexandria—Rapides Real Estate Corp., Inc., capital \$100,000, chartered; J. W. and F. B. Bolton.

La., New Orleans—Westside Land Co., Inc., capital \$25,000, chartered; Frank C. Davis, R. M. Salvant, 3201 Ursuline St.

La., New Orleans—Bayou Development Co., Inc., chartered; J. A. Maught, 7 Audubon Blvd.

La., Oberlin—Wilbur Putnam acquired 1142 acres in Allen Parish.

La., Shreveport—City plans developing Linwood Park; build golf course, swimming pool, etc.; Harold J. Neale, New Orleans, Landscape Archt.

Mo., Excelsior Springs—Charlton Land Co., incorporated; J. E. McDavid, John W. Moore.

Mo., Kirksville—Southern Development Corp., capital \$50,000, incorporated; J. W. Heyd, D. G. Freeland.

N. C., High Point—High Point Country Club plans increasing golf course to 18 hole.

N. C., Waynesville—Carolina Land Co. incorporated; James Atkins, J. T. Mangum.

Okla., Ponca City—Real Estate Holding Co., incorporated; L. K. Meek, F. F. Ball.

Okla., Seminole—Votes Aug. 21 on bonds. See Financial News.

Tenn., Knoxville—Dixie Realty Co., 105 Deaderick Bldg., J. W. Crudginton, Pres., re-organized; increased capital, \$25,000 to \$50,000.

Tenn., Ooltewah—Maywood Land Co., Hunter Purches, developing 150 acres in

Hamilton County for subdivision; construct roads, install water lines and pipes, build 2 miles electric line, expend \$10,000.

Tex., Brownsville—Port Isabel Irrigation Co., subsidiary of Port Isabel Townsite Co., acquired 30,000 acres in Cameron County; will develop about 15,000 acres in citrus fruits; will irrigate and make other improvements.

Tex., Corpus Christi—J. H. Parker, 520 Hardy St.; F. E. Jones, 5131 Euclid Ave., both Kansas City, Mo., acquired 75,000 acres of land on Padre Island from Point Isabel to Corpus Christi; develop for beach playground, etc.; construct \$50,000 causeway connecting south end of island with mainland of Point Isabel; Maj. W. R. Swan, Engr., in charge.

Tex., Hondo—Johnson Farms, Inc., chartered; Samuel L. Kone, O. C. Johnson.

Tex., McAllen—Bd. of Directors of Tepehuaje Country Club, engaged Lloyd Hazen, to revamp present 9 hole golf course; will superintend installation of sprinkler system, additional 9 holes, etc.

Tex., San Antonio—J. DePuy, Builders Exchange Bldg., acquired 3500 acres irrigable land in Atasca County; develop for small farms.

Va., Falls Church—Ruby Lee Minar, 1405 New York Ave., N. W., Washington, D. C., developing subdivision on Lee Boulevard.

Va., Hopewell—Petersburg-Hopewell Industrial Land Corp., capital \$25,000, incorporated; M. T. Broyles, H. B. Rice.

Va., Norfolk—Golf Park, Inc., capital \$50,000, chartered; G. G. Fisher, 617 Armistead Broad Road.

Va., Richmond—Milbro, Inc., capital \$100,000, chartered; W. J. Kimbrough, Jr., 3120 Lamb Ave.

W. Va., Clarksburg—Stonewall Burial Park Co., capital \$15,000, incorporated; C. H. Gaines, 112 Dodge Court.

W. Va., Weirton—Graner Realty Co., 39 16th St., Wheeling, develop Weircrest Addition.

Lumber Enterprises

Ark., DeWitt—C. P. Cheney of J. W. Porter Lumber Co. acquired lumber yard of DeWitt Lumber Co.

Fla., Miami—Stuart Lumber Co., incorporated; M. G. Davis, Gregg Davis.

Ga., Savannah—A. S. Bacon & Sons, Schwarz Ave., capital \$150,000, incorporated; Hal H. Bacon, Albert C. Bacon.

La., Alexandria—Roy O. Martin Lumber Co. acquired Martin-Wilkie Lumber Co.; plans constructing 8-ft. band mill; cost \$55,000.

La., Bogalusa—Great Southern Lumber Co., Buffalo, N. Y., and Bogalusa, and Finkbine Guild Co., Jackson, Miss., reported, plan consolidating; Great Southern Lumber Co. operates large mill in Bogalusa and has extensive Southern timber holdings and wood pulp paper operations; Finkbine Guild Co. has extensive redwood holdings on West Coast, operating fleet of vessels between West Coast and New Orleans for bringing redwood logs to be manufactured into lumber at plants of Finkbine Lumber Co., separate corporation, at D'Lo and Wiggins, Miss.

Miss., Columbus—Hogan Lumber Co. increased capital to \$15,000.

N. C., Albemarle—D. J. Hatley, M. M. Palmer and Vick Noose have acquired lumber yard operated by E. E. Suggs; improve and operate as Stanly County Lumber Co.

Okla., Snyder—Home Lumber Co. acquired lumber yard of G. B. Tarr Lumber Co.

Tex., Lockhart—S. Vogel & Sons remodel office and lumber sheds.

Tex., Rusk—C. A. McGrill rebuild burned sawmill.

Va., Bedford—Stephens Hardwood Co. will rebuild burned hardwood plant.

Va., Leesburg—V. T. Hirst plans rebuilding burned lumber yard and mill. See Want Section—Machinery and Supplies.

Va., Norfolk—Langborne M. Williams, Richmond; J. B. Walker, Baltimore; W. Creed Davis and Mr. Carneal, representing Sitterding-Carneal & Davis; Stewart Woodward, representing Montague Lumber Co., Richmond Lumber Co. and Stewart Woodward & Sons, all of Richmond and South Richmond, and C. M. Baylor, E. B. Hawkes, Dan Raper, J. Watts Martin and Mr. Matthews, of Norfolk Sash Door & Blind Co., representing local interests; representatives of American Appraisal Co., New York, interested in merging about 8 large lumber and planing mills and finishing plants in Tidewater section of Virginia into new concern to be known as Consolidated & Milling Corp.,

with working capital \$7,500,000 to \$10,000,000 and with plant and offices of about 208 acres on Hampton Roads Terminal Property; by using both rail and waterborne transportation delivery to all points in Virginia, Maryland and North Carolina would be facilitated; would install by-product plants to use sawdust, making wood alcohol, synthetic turpentine and pulp finally dried and ground into wood flour to be used in making dynamite and gun cotton, etc.; plant in full operation employ about 350 to 400 men; R. T. Lipscombe, Indust. Engr., in charge of assembling properties.

Mining

Tex., Marfa—Nitrate Corporation of America, incorporated; C. E. Mead, Marfa; J. Ed. Cabaniss, Katy.

Miscellaneous Construction

Md., Beltsville—Director of Purchase and Sales, Dept. of Agriculture, Washington, D. C. receives bids Aug. 17 for crematory, etc. See Want Section—Bids Asked.

Tex., Houston—Mausoleum—Community Mausoleum Co., Harry M. Washington, Pres., Esperson Bldg., constructing \$500,000 mausoleum in Forest Park Cemetery; domestic marble exterior and interior, bronze fixtures and doors, 53x83 ft., rein. conc., copper or zinc roof; conc. work for foundation and first floor has been completed; let following additional sub-contracts: Plumbing, Geo. H. Graham, Wayside and Telephone Sts.; wiring, A. T. Vick Co., Inc., Electric Bldg.; bronze, Lumberman's Supply Co.; interior marble, Vermont Marble Co., Electric Bldg.; Lovell & Lovell, Archts., 224 E. Ontario St., Chicago; Harry E. Weaver, Asso. Archt., Esperson Bldg.; H. W. Underhill Construction Co., Gen. Contr., Dallas.

Tex., Manchester—Port Comn. let contract to Meyerson & Hoffman for repairing city wharf and to Garrison & Bingham for excavation.

Va., Richmond—Richmond Port Comn. plans constructing another unit to dock after Jan. 1 to cost \$150,000.

Miscellaneous Enterprises

Ala., Montgomery—Confections, etc.—Goldenerisp Co., Inc., capital \$25,000, chartered; E. W. Smith, 710 Washington St.

Ala., Tuscaloosa—Canal Bank and Trust Co., and Watson Williams & Co., of New Orleans, La., have underwritten \$2,500,000 Gulf States Paper Corp. First Mortgage 6½% Sinking Fund Bonds, with stock purchase warrants attached, which will be offered soon; proceeds to be used for financing construction of \$6,000,000 paper mill.

Ark., El Dorado—James Woodwin, Mgr. of El Dorado laundry and dry cleaning plant, announced company will rebuild burned plant.

D. C., Washington—Dist. Comms. recently placed order with Crouse-Hinds Co., Syracuse, N. Y., for 820 aluminum traffic light signals; controlling apparatus operating signals to be furnished by General Electric Co., Washington, D. C.; Harrington-Seaberg Corp., Moline, Ill.; Horn Signal Mfg. Co., 290 Hudson St., New York City, and American Gas Accumulator Co., Elizabeth, N. J.; Potomac Electric Power Co. of District of Columbia will construct.

Fla., Boca Grande—Building Materials—Gaines & Thornton, Inc., chartered; Jeff Gaines, J. K. Chapman.

Fla., Canal Point—See Land Development.

Fla., DeLand—DeLand Hardware Co., capital \$20,000, incorporated; H. W. Mercer, W. B. Martin.

Fla., Hollywood—Engrs. and Contrs.—J. R. Barnes Co., Inc., capital \$25,000, chartered; J. R. Barnes, D. L. Barnes.

Fla., Lakeland—Palmer Mattress Co., Inc., chartered; E. M. Fetting, 140 Prado Place.

Fla., Miami—Vegetables—Florida Sunshine Products, Inc., chartered; George R. Short, 220 N. E. First Ave.

Fla., Miami—Federal System of Bakeries, 50 W. Flagler St., will remodel building, 17 E. Flagler St.

Fla., Tampa—Florida Container Co., capital \$50,000, incorporated; John T. Ladue, T. M. Shackelford, 933 Golf View Ave.; will establish plant in building, Mississippi Ave. and A. C. L. tracks, manufacture fiber and pasteboard boxes, initial annual capacity, 2,000,000 boxes.

Ga., Macon—S. E. Odom Co. erecting plant for Ideal Creamery, Oglethorpe St.

Ky., Louisville—Organization of the Reynolds Metals Co. is reported planned to combine the Fulton Sylphon Company,

Knoxville, Tenn.: Robertshaw Thermostat Co., Youngwood, Pa.; United States Foli Co., 30th and Grand Sts., Louisville, Ky., and Beech-Nut Foli Co., Canajoharie, N. Y.; Richard S. Reynolds, Pres. of United States Foli Co., Louisville, Ky., will be president of new company.

Ky., Louisville—John Ogle Store Fixture Mfg. Co. incorporated; J. T. Ogle, 700 W. Jefferson St.

La., Elmgrove—Jones Chemical Co., Inc., capital \$50,000, incorporated; Coulter W. Jones, M. Eola Jones.

La., New Orleans—National Homebuilders, Inc., incorporated; D. D. Weetall, 3917 Dryades St.

La., Shreveport—Naps Nu-Grape Bottling Co., Inc., capital \$15,000, incorporated; K. R. Phillips, 745 McCormick St.

Miss., Senatobia—Senatobia Gin and Ice Co. started constructing cheese plant; daily capacity 10,000 lbs.; R. E. Clark directing construction. 7-12

Mo., Kansas City—Radium Springs Water Co., incorporated; S. S. Sandy, 4240 Chestnut St.

Mo., Kansas City—Printing Service, Inc., chartered; Virgil McKinley, M. M. Jenkins.

Mo., Kansas City—Roscoe Stith Building Co., incorporated; Roscoe C. Stith, 5147 Lydla St.

Mo., Springfield—Office Supplies and Printing—Louis Reps erect \$60,000 building, St. Louis St.; brick, conc., steel, 50x270 ft., 2 stories, terrazzo floors, 5 ply tar and gravel roof; Eugene F. Johnson, Archt., 300 McDaniel Bldg.; W. W. Johnson, Contr., 301 College St. Bldg. See Want Section—Building Material and Equipment.

Mo., St. Louis—Edgar Wickhorst, 1314 S. 13th St., erect \$15,000 bottling plant at 637 Tower Grove; brick, 2 stories, 80x149x10 ft., comp. roof.

Mo., St. Louis—Medical and Dental Equipment, etc.—Professional Products Corp., incorporated; Ralph Rawson, Missouri Bldg.

Mo., St. Louis—Pheta Dyeing and Cleaning Co., incorporated; William E. Brusselback, 5449 Milentz St.

Mo., St. Louis—Urban Building Corp., incorporated; J. G. Lundberg, 428 E. Jackson Road.

Mo., St. Louis—Motor Picture Machine Appliances, etc.—American Cline Screen Co., incorporated; John A. Schuld, A. M. Pollack.

Mo., St. Louis—Lordell Realty and Construction Co., incorporated; James W. Kopman, 594 Arcade Bldg.

Mo., St. Louis—Store Fixtures—United Fixture Co., incorporated; Benjamin Weiss, 4569 N. Shenandoah St.

Mo., St. Louis—Bottled Water—Golf Springs Co., incorporated; T. C. Turner, Arthur G. Lockwood.

N. C., Charlotte—Swift & Co., U. S. Yards, Chicago, let contract to Southeastern Construction Co., 210 W. Second St., for erecting salad oil plant; conc., brick, 39x50 ft., 2 stories; \$13,500.

N. C., Lexington—Davidson County Creamery Co. erect brick creamery, Main St.

N. C., Scotland Neck—Nehi Bottling Co., capital \$20,000, incorporated; J. C. Shields, R. L. Woodward.

N. C., Troy—Montgomery, Inc., capital \$25,000, incorporated; J. S. Edwards, C. C. Howell; will publish newspaper.

Okla., Frederick—Frederick Milk Co. construct \$45,000 cheese plant.

Okla., Tulsa—Mason Food Products Co. acquired buildings and grounds of Empire Refining Co. on U. S. Highway 75, about 9 miles from here; will equip factory for manufacturing artificial jellies with capacity of 1,000,000 lbs. of artificial jellies and other food products monthly.

Tenn., Memphis—Bd. of Adjustments granted permit to Plough Chemical Co., 121 S. Third St., to erect \$1,000,000 plant, South and East Parkways; 5 stories with elevator and water towers; to manufacture toilet requisites, etc.; Harker & Cairns, Archts., 123 S. Court St.; Jackson & Moreland, Indus. Engrs. 6-7

Tenn., Memphis—Fire Doors—F. L. Saino Mfg. Co., 66 W. Colorado St., increased capital to \$30,000; plans plant expansion. 7-26

Tenn., Nashville—Victor Chemical Works, 343 S. Dearborn St., Chicago, and Centennial Blvd., Nashville, erecting addition to plant including furnace for production phosphoric acid.

Tenn., Nashville—Citizens Appeal Publishing Co., 138 Third Ave., incorporated; H. C. Daniel.

Tex., Borger—Metal Safety Placard Co. increased capital to \$32,000.

Tex., Dallas—Wiley Construction Co., incorporated; Emery Wiley, North Texas Bldg.

Tex., Dallas—Southern Hat Manufacturing Co., incorporated; Bert Rosenfield, 2420 Park Row.

Tex., Dallas—Mrs. Baird's Bread Co. erect \$102,600 factory, 1405 N. Carroll St.; brick, steel, conc., 3 stories. 8-2

Tex., El Paso—Sunlite Bakery Corp., capital \$25,000, incorporated; F. A. Carraud, Ed. Zwaplen.

Tex., Fort Worth—Waples Platter Co., 1819 Jones St., changed name from Waples-Platter Grocery Co., increased capital, \$1,500,000 to \$3,000,000.

Tex., Groveton—Dixie Creameries, Inc., 2419 Southern St., Shreveport, La., erect \$35,000 creamery.

Tex., Houston—Pyramid Stone Co., National and Center Sts., increased capital, \$20,200 to \$50,000.

Tex., Houston—W. D. Hayden Co. erect \$350,000 oyster shell lime plant; to be rotary kiln type with daily capacity of 60 to 75 tons; include oyster shell crushing plant for poultry and oyster shell meal for lining of soils; receiving bids for 7x125 ft. kiln and 6x6 ft. cooler; fireproof construction, struct. steel framing covered with asbestos protected metal, steel sash, conc. floors; use electricity and natural gas for fuel; Arnold & Weigel, Contrs.-Engrs., Woodville, Ohio.

Tex., Orange—Spears Dairy, Inc., 1010 Boundary St., Houston, plans erecting creamery here.

Tex., San Angelo—Concho Tool and Supply Co., capital \$25,000, incorporated; W. A. Letson, William W. Gruber.

Tex., San Antonio—Monk Engineering and Construction Co., capital \$40,000, incorporated; J. D. Monk, 216 Primera Drive.

Tex., San Antonio—Texas Neon Co., L. E. Fuller, Milam Bldg., has low bid at \$16,980 from J. M. Chittim, Builders Exch. Bldg., for constructing factory to manufacture signs; steel frame, mill type construction, 75x100 ft., roofing siding and rear covered with corrugated asbestos, front facade of hollow tile and stucco, cast stone trim; rein. slab floor; Beretta-Stiles Co., Inc., Consult. Engrs., 1203 Natl. Bank of Commerce Bldg.

Tex., Temple—Telegram Publishing Co. increased capital, \$50,000 to \$60,000.

Tex., Texarkana—Lato Steel Manufacturing Co., capital \$30,000, incorporated; J. M. Wadley, W. L. Wood, Jr.

Tex., Winkler—Winkler County Publishing Co., incorporated; Richard H. Trion, D. Vance Swann.

Va., Norfolk—Butt Contracting Corp., capital \$50,000, incorporated; A. B. Butt, Jr., R. L. Trant, 801 Granby St.

Va., Roanoke—Stauffer Chemical Co., Inc., Grand Central Terminal, New York, let contract to Virginia Bridge and Iron Co., for struct. steel work for plant; brick from Adams, Payne & Gleaves, Inc., 506 Jefferson St., S.; Tilt-Hargen Co., Engr.-Contr., 90-92 W. Broadway, New York, has contract for designing and construction. 8-2

Va., West Point—Publishing—West Point News incorporated; C. L. Woodward, W. G. Waring.

W. Va., Martinsburg—J. Melvin Ripple, N. Queen St., Samuel O. Sellers, Boyd Ave., erecting \$15,000 factory, Warm Springs Road, near Martinsburg; manufacture sausage.

W. Va., Moundsville—Stockholders of Fostoria Glass Co. ratified increase of capital, \$1,000,000 to \$3,000,000. 7-12

W. Va., Parkersburg—Haggerty Cigar Co., capital \$50,000, incorporated; J. S. Haggerty, Margaret Hopwood.

W. Va., Wheeling—Home Builders Supply Co., capital \$100,000, incorporated; W. H. Truschell, 1530 Market St.

Motor Bus Lines and Terminals

Okla., Muskogee—Ward Way Transportation Co., capital \$600,000, incorporated; Ward Faulkner, 1230 W. Okmulgee St.

Tennessee—J. H. Harrison, Spring City, applied to Public Utilities Comm., Nashville, for franchise to operate bus line from Etowah to Dayton, via Athens, Decatur and Washington ferry.

Texas—Kennedy & English, Dallas, C. S. McMullen, Lufkin, Young's Bus Line, 550 Orleans St., Beaumont, all have applied to Railroad Comm., Austin, for permission to operate bus lines between Lufkin and Beaumont.

Texas—State Railroad Comm. granted permit to J. R. Walker, Mason, to operate 252 mi. motor bus line from Llano to McCombs, by way of Mason, London, Junction, Sonora, Ozona and Sheffield.

Tex., San Antonio—Martin-Navarro Co., Louis W. Lipscomb, Pres., Frost Natl. Bank Bldg., has low bid at \$94,000 from Walsh & Burney, 928 Flores St., for constructing \$250,000 bus terminal, Navarro, Martin and

Pecan Sts.; low bid from West & Gutzelt, 425 Main St., for plumbing, and from Wright Bros., 405 Main St., for electric; Spanish design, rein. conc., brick, stucco, 1 and 2 stories and basement; Herff & Jones, Archts., S. A. Loan and Trust Bldg.; Beretta-Stiles Co., Inc., Consult. Engrs., 1203 Natl. Bank of Commerce Bldg. 6-28

Motor Cars, Garages, Filling Stations

Ala., Birmingham—Mrs. F. E. Haskell erect filling station and store, S. Third Ave. and 24th St.; 1 story, 100x100 ft., brick; built-up roof; cost \$17,000; Mackle Bldg. Co., 615 S. 27th St.

Ala., Montgomery—Montgomery Hotel Co. erect brick garage, 1 story, conc. roof; J. O. Estes & Co., Contr., 23 Adams St.

Ala., Tuscaloosa—University Chevrolet Co., capital \$30,000, incorporated; Jim Davis, E. R. Skelton.

Ark., Fort Smith—Fort Smith Automotive Supply Co., 7 N. Second St., plans increasing capital to \$150,000.

Fla., Fort Lauderdale—Gordon Tire Service, Inc., chartered; A. E. Gordon, L. H. Gordon.

Fla., Orlando—Orlando Motors, Inc., incorporated; Harry Stalberg, 430 Cathcart St.

Fla., Wauchula—Weather Tire Co. erect building, 50x60 ft.

Ky., Beattyville—Greer-Baxter Motor Co. incorporated; C. W. Greer, M. I. Baxter.

Ky., Paducah—Broadway Motors, Inc., 1128 Broadway, erect \$15,000 building; brick, stone; G. Tandy Smith, Archt., Guthrie Bldg.

La., Amite—Lockett & Chachere, Archts., Balter Bldg., New Orleans, completed plans and specifications for garage; 1 story, 60x110 ft., brick, steel, comp. roof; receives bids Aug. 15; following contractors estimating: Reilly-Ruckstuhl, Inc., Maritime Bldg.; Dudley & Winkle Construction Co., Stern Bldg.; A. Garrett, Maritime Bldg.; Chas. A. Thiercy, 2338 Valmont St., all New Orleans, La.; Dominick Anzalone, Independence, La.; G. L. Whitaker, Albert Tolle, both Hammond; Geo. B. Bange, Picayune, Miss.; E. J. Barnes, Amite, La.

La., New Iberia—Teche Chevrolet Sales Co., Inc., chartered; Joseph Davis, J. S. Davis.

La., Vinton—Fox-Chevrolet Co., Inc., chartered; C. H. Fox, Benjamin Gabbert.

Md., Baltimore—American Oil Co., American Bldg., erect \$10,000 filling station, Light and York Sts.; brick building, metal tile canopy supported by brick piers to cover entire station; Lachri Construction Co., Contr., 17 Guilford Ave.

Miss., Meridian—Evans Auto Loading Co. acquired site; will erect plant for manufacture of auto loading blocks.

Miss., Meridian—J. V. Ulmer, 2316 1/2 22d St., has low bid at \$35,000 from L. B. Priester & Son, 1403 12th Ave., for converting building into garage and filling station; stucco; P. J. Krouse, Archt., M. & W. Bldg.

Mo., Lebanon—A. W. Curran and L. C. Mayfield let contract to W. W. Johnson, 301 College St., Springfield, for \$20,000 service station, Commercial and Jefferson Sts., to be occupied by Pierce Oil Co.

N. C., Greensboro—Lakeshore Land Co. erecting building for Smith Tire Co.; cost \$12,000.

N. C., Hickory—Tallent & Mull erect \$15,000 filling station; brick, tile roof and floors; Q. E. Herman, Archt.; construction by day labor.

N. C., Wilmington—Rainey Chevrolet Co., Goldsboro, may erect 1-story building, Princess St.; brick, steel.

Okla., Oklahoma City—Sautbine Motor Co., 407 W. Eighth St., let contract to Musgrave Construction Co. for garage; brick, conc.; comp. roof; conc. floor; Harry Reynolds, Archt., Magnolia Bldg. 7-12

Tenn., Knoxville—W. M. Fulton, 820 Temple Ave., erect \$46,000 garage, Cumberland Ave.; brick, stone, tile, 1 story, 134x196 ft., built-up asphalt roof; L. M. Dow, Engr., Brownlow Bldg.; J. M. James & Son, Contr. 7-19

Tenn., Memphis—John C. Dix Son & Co., 235 Poplar St., increased capital, \$25,000 to \$120,000, acquired 2-story building with 100,000 sq. ft. floor space, Dudley St. and Sledge Ave.; company manufactures automobile bodies, hearses and ambulances.

Tex., Ballinger—Healer Chevrolet Co., Inc., M. B. Healer, Mgr., erect \$20,000 building; 100x140 ft., 1 story, colored tile and conc. flooring, new Barrett roofing; Higginbotham Bros. & Co., Contr.

Tex., Harlingen—Briscoe Motor Parts, Inc., capital \$15,000, incorporated; W. P. Briscoe, Dolph Briscoe.

Tex., Plainview—Kerr & Walsh, Archts., Amarillo Bldg., Amarillo, for garage building; brick, 1 story, 75x140 ft.; cost \$30,000.

Tex., San Angelo—Kenneth Cox and Walter Buck plan calling for bids about Aug. 20 for \$50,000 building, W. Beauregard and S. David Sts.; L shape, 60x190x60 ft.; 1 story; Kelwood Co., Archt., Travis Bldg., San Antonio.

Tex., Temple—Humble Oil & Refining Co. erect filling station, Fourth St. and Adams Ave.; brick, conc.

Tex., Wichita Falls—Wichita Oldsmobile Co., capital \$20,000, incorporated; J. J. Moran, First Natl. Bank Bldg.

Va., Amherst—G. & H. Motor Co. incorporated; J. R. Goodwin, O. V. Hanger.

Va., Hopewell—Williams Motor Co., capital \$25,000, incorporated; Frank T. Smith, George L. Williams.

Va., Richmond—Rowlett Oldsmobile Corp., capital \$15,000, incorporated; R. A. Rowlett, 3310 W. Franklin St.

Va., Rosslyn—Warner Bros., capital \$50,000, incorporated; J. H. Warner, W. S. Warner.

W. Va., Huntington—D. B. Gwinn, Tenth and Second Aves., erect \$15,000 tire service station, 12th St. and Fourth Ave.; steel, brick, conc.

Railways

La., DeQuincy—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., St. Louis, Mo., will install electric lighted block system for 37 miles between DeQuincy and Kinder; cost about \$150,000.

Mo., Bunker—Missouri Southern R. R. Co., H. A. Radtke, Gen. Mgr., Leeper, plans constructing extension from point near Bunker, west toward Current River, about 12 miles.

Oklahoma—Beaver, Meade & Englewood R. R. Co., C. J. Turpin, Gen. Mgr., Oklahoma City, let contract to Panhandle Construction Co., Grain Exchange Bldg., Oklahoma City, at \$445,000 for 20 miles of railroad west of Hooker to Hough in Oklahoma Panhandle.

West Virginia—Interstate Commerce Comm. authorized Virginian Ry. Co., A. M. Traugott, Ch. Engr., Norfolk, Va., to construct 40 mile railroad extension into Guyandot Valley of W. Va.; involves application of subsidiary, Virginian and Western Ry., to construct new line from connection with Guyandot River branch of Virginian main line at Itmann to connect with Chesapeake and Ohio at Gilbert, in Wyoming and Mingo Counties. 6-21

W. Va., Wharnciffe—Interstate Commerce Comm. authorized Guyandotte & Tug River Ry., subsidiary of Norfolk and Western Ry. Co., W. P. Wiltsee, Ch. Engr., Roanoke, Va., to construct railroad line extension from Gilbert to Wharnciffe.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Huntsville—State Highway Comm., Montgomery, plans Huntsville and Fayetteville Highway, from New Market to Tennessee State line.

Ala., Jasper—Walker County Bd. of Revenue, E. W. Long, Judge of Probate, receives bids Aug. 27 for 1/4 mi. road on Odom Hill, part of Cordova Copeland Ferry road; 6000 cu. yd. excavation; 5000 cu. yd. red rock paving, Empire-Summiton road, from Empire or Sloss Mine; J. R. Smith, Engr.

Ark., Dardanelle—Yell County, E. P. Ladd, Judge, plans expending \$70,000 to grade, gravel surface, and build minor bridges.

Ark., El Dorado—City, Jake R. Wilson, Mayor, considering 10 blocks grading, draining, curb, gutter and paving.

Ark., Little Rock—City plans paving Main St., 80-ft. wide, Twenty-fourth to railroad near Thirty-second St.; opening 3 streets in Robinson and Morrison Additions.

Ark., Magnolia—Bd. of Commrs. Street Improvement Dist. 2, A. R. Buffington, Chmn., receives bids Aug. 15 for 2700 cu. yd. excavation, 11,200 sq. yd. 1:2:3 rein. conc. pavement, Integral curb; J. W. Haynes, Engr., Ouachita Hotel Bldg., Camden; \$35,000.

Ark., Siloam Springs—City plans grading, curbing and hard-surfacing 8 blocks, Paving Dist. 6, \$35,000.

Ark., Van Buren—Crawford County plans road from Big Frog Bayou Bridge, south of Rudy, under construction, to present highway.

Ark., Wynne—City plans 5 mi. grading, curbing, conc. asphalt, asphaltic conc. or brick paving, Dist. 2.

Florida—State Road Dept., Tallahassee, received low bids for 8 roads: Lake County—15.22 mi. surface treated lime rock base, Road 2, Groveland to Lake County line, Wm. P. McDonald Co., Lakeland, \$190,052; Suwannee County—8.57 mi. Road 5-A, Itchucknee River to Suwannee River, Broadbent Construction Co., Ocala, \$68,438; 12 mi., Road 50, Live Oak south, Broadbent Construction Co., \$106,703; Lake County—1.87 mi. asphaltic surface, Florida lime rock base, Road 2, Dead River to Tavares, Manly Construction Co., Leesburg, \$60,186, for sheet asphalt; Leon County—17.98 mi. conc. Road 10, Tallahassee to Georgia State line, Nelson Brothers, Clearwater, \$391,281; Jefferson County—8.47 mi. grading, draining, Road 42, Aucilla to Lamont, Franklin Construction Co., Apalachicola, \$61,951; grading, draining, Road 96, Monticello to Waukeelah, Curry & Turner Construction Co., Bradenton, \$61,700; Okaloosa County—10.25 mi. grading, draining, Road 10, Niceville to Camp Walton, Curry & Turner Construction Co., over \$40,000. 7-12

Fla., Pensacola—State Road Dept., Tallahassee, may soon pave 10 mi. scenic highway along old Spanish Trail, Pensacola to Escambia Bay Bridge.

Fla., Stuart—Martin County Commrs. considering building grade across Glendale, connecting old and new Dixie Highway.

Fla., St. Augustine—State Road Dept., Tallahassee, plans letting contract before Jan. 1, to surface State Road No. 47, Hastings to Tocoi, St. Johns County.

Ga., Summerville—City plans \$20,000 street paving. See Financial News.

Kentucky—State Highway Comm., Frankfort, receives bids Aug. 31 for 5 roads: Barren County, 5.4 mi. surface, Glasgow-Burkesville road, point east of Glasgow near Elbow Springs, to Metcalfe County line; Carter County—surface east approach to Tygart Creek Bridge; surface section of Olive Hill; Grayson County—9.4 mi. surface, Leitchfield-Elizabethton road, Clarkson to Hardin County line; Hardin County—7.7 mi. Elizabethton-Leitchfield road, point near Old Stephensburg to Grayson County line; Madison County—5.6 mi. surface, Richmond-McKee road, Big Hill P. O. to Jackson County line; J. S. Watkins, State Highway Engr.

Kentucky—State Highway Comm., Frankfort, receives bids Aug. 31 for 12 roads and bridge: Bell County—7.4 mi. surface, Middleboro-Pruden road, from point west of Middleboro to end of grading near Fonde; Crittenden County—9.2 mi. crushed stone, Marion-Smithland road, Marion to Livingston County line; Harlan County—5.3 mi. grade, drain, Harlan-Whitesburg, end of gravel on Mayo Trail, Cumberland, to Letcher County line; Letcher County—10.2 mi. grade, drain, Whitesburg-Harlan road, point near Eolia to Harlan County line; Jackson County—15.4 mi. surface, Richmond-McKee Madison County line to McKee; Lewis County—18.7 mi. grade, drain, Vanceburg-Greenup, from Greenup County line to Vanceburg; Meade County—3.7 mi. grade, drain, Hog Wallow road, from Flaherty to junction with Louisville-Paducah road; Monroe County—6.7 mi. grade, drain, Tompkinsville-Mesack-Burkesville road, Tompkinsville to point south of Little Sulphur School; Muhlenberg County—11.438 mi. grade, drain, Central City-Russellville road, Logan County line to Drakesboro; Pendleton-Campbell Counties—2.9 mi. surface, Falmouth-Alexandria, from Peach Grove to Campbell County line, near Wesley Chapel; Robertson County—9.8 mi. grade, drain, Mt. Olivet-Blue Lick road, Lexington-Maysville pike to Mt. Olivet; 4.9 mi. grade, drain, Mt. Olivet-Sardis road, Mt. Olivet to Mason County line. Bridge: Breathitt County—over Quicksand Creek, 3 mi. from Jackson, on Jackson-Hazard road, two 100-ft. steel spans, rein. conc. piers and abutments; steel superstructure and conc. substructure; J. S. Watkins, State Highway Engr.

Ky., Frankfort—City receives bids Aug. 13 for sidewalks, curbs and gutters on Arlington Ave.

La., New Orleans—City Comm. receives bids Aug. 28, 29, 30 and 31 for 53 streets permanent paving, 31 streets temporary surfacing, including Baronne, Bartholomew, Bourbon.

La., Ponchatoula—City, Mayor and Bd. of Aldermen, considering hard-surfacing streets; Harry Y. Mentz, City Engr.

La., Shreveport—Caddo Parish Police Jury plans expending \$91,000 to extend Cross Lake Highway.

La., St. Bernard—St. Bernard Parish Bd. of Supvrs., Road Dist. No. 1, received low bid from Moore Brothers, Inc., Westwego, at \$1.98 per sq. yd. for 6760 sq. yd. cement conc. roadway paving, Angela, and 9050 sq. yd. Mehle Ave.; \$2.18 per sq. yd., conc. roadway with steel fabric reinforcement. 8-2

La., Vinton—City, C. Andrus, Clk., receives bids Aug. 14 for rein. conc. pavement on Horridge and Loree St.; 4-ft. cement sidewalks on conc. base, Loree, Eddy, Goodwin and Stevenson Sts.; F. Shutts & Sons, Engrs., 921 1/2 Ryan St., Lake Charles.

Maryland—State Roads Comm., Baltimore, received low bids for 4 roads, 2 bridges: Frederick County—99 mi. conc., Libertytown toward New London, Poffinberger & Mause, Myersville, \$24,597; Montgomery County—1.99 mi. conc., Darnestown toward Seneca, L. R. Colbert, Fredericksburg, Va., \$45,839; 1.02 mi. conc. shoulders and conc. surface, Rockville and Old Georgetown pikes, Bethesda, Loomis Construction Co., Inc., 1014 Wisconsin Ave., N. W., Washington, D. C. \$10,775; Calvert County—2.5 mi. gravel, Mutual toward Mackall, Southern Maryland Construction Co., 14 E. Lexington St., Baltimore, \$20,917. Bridges: Frederick County—triple span rein. conc. arch bridge over Catoclin River, Frederick to Harpers Ferry, Davis A. Kline, 1303 John St., Baltimore, \$31,844; Allegany County—double span rein. conc. girder bridge over Georges Creek, Lonaconing to Westernport, near Pekin, S. T. Brotmarkle, Cumberland, \$15,944. 7-26

Maryland—State Roads Comm., Baltimore, receives bids Aug. 21 for 6 roads: Frederick County—1.9 mi. macad. resurfacing, Frederick to Yellow Springs, Cont. F-114; Montgomery County—1 mi. penetration macad., Gaithersburg toward Goshen, Cont. M-107; St. Marys County—1.5 mi. gravel, New Market towards Budds Creek, New Market toward Huntersville, Cont. SM-45; Cecil County—4.5 mi. conc., Farmington to Bayview, Cont. Ce-68; Talbot County—19 mi. conc. shoulders, Harrison St., Easton, between old city limits and B. & O. R. R. tracks, Cont. 415-A; Dorchester County—8 mi. conc., Finchville toward Reliance, Cont. D-48; John N. Mackall, Chmn.

Md., Annapolis—City, Miss A. R. Tongue, Clk., receives bids Sept. 1 for \$25,000 street paving in various sections.

Md., Baltimore—Bd. of Awards receives bids Aug. 15 to grade, curb and pave with 12,200 sq. yd. cement conc., streets in Cont. 477; 5000 sq. yd. sheet asphalt on conc. base, Cont. 478; Nathan L. Smith, Highways Engr.

Md., Frederick—Frederick County Commrs. plan 2 mi. macad. road from Walkersville toward Emmitsburg State road.

Md., Frederick—Mayor and Bd. of Aldermen plan curb and gutter on West Patrick St., Jefferson St. to Tourists' Park.

Miss., Canton—State Highway Comm., Jackson, plans 2 roads in Madison County: 16 mi. from Tougaloo or Hinds County line to Canton; 4 mi. Madison-Hinds line north of Pochontas to Flora.

Miss., Columbus—State Highway Comm., Jackson, receives bids Aug. 14 for 1.7 mi. road and bridge, Lowndes County, between Columbus and Artesia; 29,500 cu. yd. excavation and borrow; 70,800 ft. B.M. creosoted lumber.

Miss., Drew—City receives bids in Aug. for 3000 sq. yd. conc. asphaltic surfacing, 1500 lin. ft. conc. curb and gutters; Massena L. Culley, Engr., First Natl. Bank Bldg., Jackson.

Miss., Pascagoula—State Highway Comm., Jackson, receives bids Aug. 13 for 1858 sq. yd. Bates type conc. pavement, between Pascagoula, Jackson County, and Mobile, Project 126; G. A. Draper, State Highway Engr.

Miss., Water Valley—Yalobusha County plans continuing highway between Oakland and Water Valley, Beat 4. See Financial News. 6-21

Mo., Higginsville—City plans grading, curbing and conc. paving, 8 blocks Bob St.; J. W. Shikles & Co., Engrs., 708 New York Life Bldg., Kansas City.

Mo., Independence—Jackson County Court, J. H. Fayman, County Treas., plans 8 18-ft. conc. and 1 graded road: From Leeds through Raytown, connecting U. S. Highways 40 and 50; Holmes Street road; Eighty-seventh, Seventy-first, Twenty-third St., Tarsney and Outer Belt roads; sold bonds.

Mo., St. Louis—City, Bd. of Public Works, received low bids to pave 7 streets, avenues and roads, with Warrenite bitulithic and asphalt: Central Paving and Construction Co., 411 N. Seventh St., \$57,840; Bridges Asphalt Paving Co., 1470 Kentucky St., \$37,844; Trinidad Asphalt Manufacturing Co., 600 S. Teresa St., \$37,825. 7-26

N. C., Charlotte—City, Marion Redd, Mayor, plans expending \$1,000,000 to widen 5 streets, repave East Trade St. with 8-in. conc. base, 3-in. top; Gilbert C. White Engineering Co., Consol. Engr., 406½ W. Main St., Durham.

N. C., Durham—City considering extending Morgan St., Jones to Watts.

N. C., Greensboro—Pres., J. I. Foust, and Bd. of Trustees of North Carolina College for Women, receive bids Aug. 15 for street improvement: 3800 sq. yd. conc. paving, 3100 lin. ft. curb and gutter, 500 cu. yd. excavation, 9 catch basins, 5 manholes; Strickland & Freeman, Engrs., High Point.

N. C., Statesville—State Highway Comm., Raleigh, has taken over Mooresville-Salisbury road, to be known as State Highway 150; will widen.

N. C., Winston-Salem—City plans letting contract to grade and pave Knollwood St., Westover Park Development; to pave in Westfield section.

Okla., Altus—City plans 7100 sq. yd. conc. paving and grading, Hudson St.; J. C. Chisum, Engr.

Okla., Ardmore—Carter County Commrs. plan 60.5 mi. conc., 11 mi. grading, draining, 6 mi. gravel roads; cost \$500,000. See Financial News.

Okla., Duke—City plans expending \$40,880 for 10,200 sq. yd. conc. paving and grading, Broadway and Main St.; H. S. Sullivan, Engr., Lone Wolf.

Okla., Duncan—City plans 7400 sq. yd. conc. paving and grading, West Main St., \$27,600; H. S. Sullivan, Engr., Lone Wolf.

Okla., Duncan—City, John L. Davis, Clk., plans receiving bids soon for 3867 sq. yd. conc. paving; Portland cement conc., sheet conc. method-patented; \$16,000; Harry S. Sullivan, Engr., Oklahoma City.

Okla., Norman—City plans 11,000 sq. yd. conc. paving, grading, Southridge Addition, \$31,600; F. Cobb, Engr.

Okla., Oklahoma City—City, E. M. Fry, Mgr., plans widening Twenty-third St., Eastern Ave. to Lincoln Blvd.

Okla., Oklahoma City—City, E. M. Fry, Mgr., received low bid from M. A. Swatek Co., 519½ W. Main St., to pave with 7-in. conc. 8½-ft. widening of Tenth St., Olive to Francis Ave.; plans widening South Robinson Ave. 8 ft. on each side.

Okla., Shattuck—City plans 8100 sq. yd. conc. paving, grading, Arapahoe and First St.; \$26,000.

Okla., Talequah—City plans expending \$26,118, for 8800 sq. yd. conc. paving, grading, Dist. 5; T. P. Clouts, Engr., Muskogee.

Okla., Tipton—City plans 8500 sq. yd. conc. paving, grading, West Main St., \$26,000; V. V. Long & Co., Engrs., 1300 Colcord Bldg., Oklahoma City.

Okla., Tulsa—City Comm. plans widening Detroit Ave., Seventh to Tenth St.; plans creating district to pave Virgin St. and several alleys; B. M. Hart, City Engr.

South Carolina—State Highway Comm., Columbia, receives bids Aug. 21 to top-sill 6 roads totaling 51 mi., and 3 bridges.

S. C., Bamberg—City plans \$60,000 street paving. See Financial News.

S. C., Greenwood—Greenwood County Highway Comm. plans all-weather roads in county; will sell bonds.

Tenn., Elizabethton—City plans street and sidewalk improvement. See Financial News. 6-14

Tenn., Nashville—City, Bd. of Public Works, plans applying oil and gravel on 3 streets in East Nashville: South Seventh, South Eighth, South Ninth; also Thirteenth Ave.; S. H. McKay, Clk.

Tenn., Ripley—City plans expending \$75,000 to complete street paving and curbing. See Financial News.

Texas—State Highway Comm., Austin, allotted \$1,124,000 in State and Federal funds to improve roads and build 2 bridges, in 8 counties in West Texas: Potter County—28 mi. asphalt surface, Highways 13 and 33; Jones County—10 mi. conc., Highway 30, Stamford to point north of Anson; Shackelford County—12½ mi. bit. conc. surface, caliche-broken stone base, Highway 1-A; Baylor County—20 mi. grading, draining, Highway 24, Seymour to Archer County line; Kent County—bridge, on Highway 84; Taylor County—10 mi. conc. paving conc. base course, Highway 1; Hale County—37 mi. grading, draining, Highway 9, Lubbock County line to Swisher County line; McCulloch County—rein. conc. girder bridge over Brady Creek, Highway 9.

Texas—State Highway Comm., Austin, plans improving Highway 10 on Fort Worth to Brady Highway; Corners of Parker and

Johnson Counties; Cresson cut-off, extending 8 mi. from Fort Worth to Cresson.

Tex., Albany—Shackelford County, Richard Dyess, Judge, plans 17.191 mi. grading, bridges, Highway 23, Albany to Throckmorton County line, \$102,825; 12.691 mi. crushed stone, 3-in. bit. macad. surface, Highway 18, from Highway 1-A to Jones County line, \$109,300; Jas. E. Pirie, County Engr.

Tex., Anahuac—Chambers County plans expending \$110,000, to grade and bridge 19.065 mi. Highway 125, Jefferson County line to Highway 61; E. L. Scherer, Engr.

Tex., Brownsville—Southwest Development Corp., D. W. Royhensies, Gen. Mgr., Goshen, N. Y., plans grading, dredging, constructing dam, bridging, 6 mi. road Grove Park, near Brownsville; A. E. Anderson, Engr., Brownsville.

Tex., Childress—Childress County Engr., S. D. Bacon, will survey State Highway 4, Childress to Cottle County line, to connect with highway under construction by Cottle County.

Tex., Dallas—Dallas County Commrs. Court plans receiving bids Aug. 13 for 3550 sq. yd. rein. conc. paving near Wilmer; R. H. Clinger, County Engr.

Tex., Decatur—Wise County has \$16,000 available toward 6.05 mi. gravel, rock base, Highway 39, Decatur to Sandy Creek.

Tex., Eldorado—City considering hard surfacing main street.

Tex., Edinburg—Hidalgo County, J. Q. Henry, Judge, receives bids Sept. 12 for \$800,000 paving, Mission Road, north from city to 7-mile line, and south to Military road; Pat Devine, County Engr.

Tex., Galveston—Galveston County considering conc. topping 2 roads: Highway 58, Galveston to Brazoria County line; 3 mi. road from Texas City cut-off road to Texas City limits.

Tex., Groesbeck—Limestone County plans topping Highway 14, Navasota River south.

Tex., Galveston—Galveston County, E. B. Holman, Judge, considering paving Highway 29, and Texas City cut-off roads. See Financial News.

Tex., Hallettsville—Lavaca County plans \$200,000 roads in Road Dist. 4. See Financial News.

Tex., Houston—Harris County, Norman Atkinson, Judge, plans 4.225 mi. surface, Highway 73, Eureka to Campbell road; A. J. Wise, County Engr.

Tex., Houston—Harris County, Norman Atkinson, Judge, plans \$7,506 sq. yd. crushed rock surface, Sec. 2, Westheimer road, \$75,000; A. J. Wise, Engr.

Tex., Houston—City, W. A. Moore, Sec., received low bids to pave 6 streets in Park Place and Heights: A. M. Arnold & Co., 112 Buffalo St., \$6210, for shell with granite topping; \$8185, gravel with granite topping.

Tex., Laredo—Webb County plans 8.344 mi. conc., Highway 12-A, Aguilares to Oilton; T. E. Huffman, County Engr.

Tex., Madisonville—Madison County, W. V. Jones, Judge, plans 19.658 mi. rein. conc., Highway 32, Leon County line to Walker County line, \$606,500; A. McCormick, Res. Engr.

Tex., Mercedes—City Council plans expending \$150,000 to open up and pave streets in residential and business sections; provide paved route to Country Club.

Tex., Odessa—City, Mayor McKinney, plans receiving bids for 15 blocks of paving. See Financial News. 7-26

Tex., Palestine—City plans expending \$60,000 for street improvement, including paving, widening, purchasing right of way, etc. See Financial News.

Tex., Pittsburg—State Highway Comm., Austin, plans road from Pittsburg, Camp County, to Mount Pleasant, Titus County, to connect 2 counties with Jefferson Highway.

Tex., Richmond—Fort Bend County, W. I. McFarlane, Judge, plans 14.544 mi. conc., Highway 12, Wharton County line to Rosenberg, \$340,900.

Tex., San Antonio—City, C. M. Chambers, Mayor, plans paving 1600 ft., St. Mary's St. extension from San Antonio River Bridge to Jones Ave. at Camden St.; cost \$70,000; I. Ewig, City Engr.

Tex., San Antonio—Bexar County, Travis City, considering paving Highway 2 into San Antonio.

Tex., San Antonio—City, Fred Fries, Clk., received low bids from Southwest Bitulithic Co., 711 Gunter Bldg., \$12,427, to pave Dolores St., Military Plaza to Santa Rosa; \$7562, for Buena Vista St., Santa Rosa to San Saba.

Tex., Temple—City, G. E. Byars, Mgr., plans expending \$150,000, for several miles brick, conc., gravel or asphalt paving. 4-19

Tex., Throckmorton—Throckmorton County contemplates 14½ mi. grading, draining, Highway 79, Throckmorton to Young County line.

Tex., Vernon—Wilbarger County, J. V. Townsend, Judge, plans 13.313 mi. grading, bridges, Highway 28, Vernon to Foard County line; John B. Nabors, County Engr.

Tex., Waxahachie—Ellis County Commrs. Court H. R. Stovall, Judge, plans \$50,000 to complete State Highway 6 from Sterrett to Dallas; \$140,000, for lateral roads. See Financial News. 7-26

Tex., Wharton—Wharton County plans completing Highway 12, sold \$200,000 bonds.

Tex., Wharton—Wharton County Commrs. plan \$500,000 roads in Dist. 3. See Financial News.

Virginia—State Highway Comm., Richmond, receives bids Aug. 21 for 2 roads: 7.37 mi. soll, Route 32, from intersection with Route 39, Richmond-Charlottesville road to Fluvanna County line; 2.5 mi. grade, drain, Route 32, Fluvanna line south.

Va., Fredericksburg—State Highway Dept., Richmond, receives bids Aug. 21 for sidewalk to bridge at Fredericksburg, Route 31, 34,750 lb. struct. steel; C. S. Mullen, Ch. Engr.

Va., Hopewell—City plans filling and grading Poythress St., through ravine to new jail; later to City Point.

Va., Hopewell—War Dept., Washington, granted permit to State Highway Comm., Richmond, to widen Petersburg to Hopewell, 30 to 60 ft., across Camp Lee Military Reservation.

Va., Hopewell—City Council plans \$150,000 streets. See Financial News. 7-19

Va., Prince George—State Highway Comm., Richmond, receives bids Aug. 21 for 3.8 mi. soil or gravel road, Route 24; 34,960 cu. yd. excavation, 5789 lb. rein. steel; bridges over 20-ft., over Blackwater Swamp, 7235 lb. rein. steel.

W. Va., Fairmont—City and Bd. of Education, Fairmont Independent School Dist., considering paving certain streets along new school buildings, including Naomi, Spring, Weatherwax, Oakwood.

W. Va., Fairmont—State Road Comm., Charleston, receives bids Aug. 18 to pave with conc. Project 2133, Marion County, Mill Fall relocation.

W. Va., Parkersburg—City Council considering asphalt paving various streets, including Lynn, Thirteenth St., St. Mary's Ave.

Contracts Awarded

Ala., Montgomery—City Comm. let contract to R. G. Lassiter & Co., Citizens Bk. Bldg., Raleigh, N. C., for 10,000 sq. ft. sidewalk paving on 3 streets.

Ala., Tuscaloosa—City Comm. let contract to Murphey & Walters, Troy, \$23,252, to pave Tenth St., Tenth Ave. and Hackberry Lane; to Hooper Winston Construction Co., Auburn, \$11,502, to re-surface University Ave.

Fla., Jupiter—R. H. Price Construction Co. has general contract for cement sidewalks at Jupiter High School.

Ky., Fulton—City, W. O. Shankle, Mayor, let contract to Carey-Reed Co., Guaranty Bank Bldg., Lexington, \$188,464 for 5 mi., about 50 blocks 6-in. rein. conc. paving, curb and gutter.

La., Benton—Bossier Parish let contracts for 4 roads, totaling 52 mi., 13 mi. rein. conc., balance gravel: T. S. Clements Construction Co., Bossier City, \$28,500 per mile, for 13 mi. 20-ft., Shreveport to Benton road; S. T. Jones Construction Co., Leesville, \$11,500 per mile, for 14 mi. Plain Dealing-Sarepta road; Wimberly Construction Co., Church Point, \$12,500 per mile, for 15 mi. Benton-Plain Dealing road; Thibodeaux & Harrison Construction Co., 1420 Main St., Baton Rouge, \$12,000 per mile, for 10 mi. road south from Bossier City.

Mo., Clayton—St. Louis County let contract to Felix Kersting Co., Jefferson City, \$5975, to improve Sulphur Springs road, Fern Glen north. 7-26

Mo., Fulton—State Highway Dept., Jefferson City, let contract to Pope Construction Co., Jefferson City, for additional 1¼ mi. conc. slab on Highway 54, to Fulton Special Road Dist.

Mo., Kansas City—City, Matthew S. Murray, Dir. of Public Works, let contract to Midwest Paving Co., Uptown Bldg., \$175,495, to pave Main St., with Natural lake asphalt, Pershing Square to Twenty-sixth St.

N. C., Oxford—Weisiger Co. has contract for about 4 mi. conc. from Vance County line into Oxford, Granville County.

Okla., Marshall—Standard Paving Co., 2115 E. Eleventh St., Tulsa, has contract, \$42,154, for 13,850 sq. yd. grading, conc. paving, Vine, Missouri and Kansas St.

Okla., Shawnee—City, J. C. Coleman, Clk., let contract to H. L. Cannady Co., 1116 S. Lewis St., Tulsa, \$30,000, for paving in Dist. 65.

Okla., Tulsa—Tulsa County Commrs. let contract to Porter Construction Co., \$86,495, 7-in. Bates rein. conc. 20-ft. wide, Sand Springs road, end of present pavement at White City to connect with paved Claremore Highway.

Okla., Tulsa—City Comm. let contract to pave 3 streets: Porter Construction Co., \$10,619, Indianapolis Ave., Nineteenth St.; \$16,435, for Birmingham Ave.; to Standard Paving Co., 1742 E. Sixth St., \$6406, for Florence Place.

Okla., Tulsa—City, Frank P. Kitchen, Auditor, let contract to H. L. Cannady Co., 1116 S. Lewis St., for paving in Dist. 886; to Western Construction Co., 229 N. Nogales St., Tulsa, \$18,378, paving in Dist. 882.

S. C., Greenville—Greenville County Highway Comm., B. F. Rush, Chmn., let contract to Carolina Road Surfacing Co., McBee Ave., \$420,249, to treat with tar prime, asphalt and stone top, seal coat, 13 projects, totaling 106 mi., 18 ft. wide, 5-ft. shoulders on each side, rein. conc. culverts, etc.

Texas—State Highway Comm., Austin, let contracts for 14 roads and 3 bridges: One course asphalt treatment: Potter County—12 mi. Highway 13, point west of Amarillo to Oldham-Potter County line, H. K. McCollum, 1507 Ft. Worth Nat'l Bank, Fort Worth, \$25,027; Jasper and Newton Counties—9.1 mi. Highway 8, Evadale to Neches River, 13.5 mi. Highway 62, Buna to Oeange-Newton County line, H. K. McCollum, \$28,707; Trinity County—17.8 mi. Highway 19, Houston County line to Trinity River, Brown & Root, Box 745, Austin, \$15,382; Anderson County, 9.749 mi. conc., Highway 19, Palestine to Elkhart, Dodds & Wedegartner, San Benito, \$208,323; 8.448 mi. grading, draining, Highway 43, Palestine through Tucker, Epronson Bros., Sherman, \$28,565; large drainage structures, Tibbetts Construction Co., 714 Neil P. Anderson Bldg., Fort Worth, \$13,864; Harris County—2.002 mi. grading, draining, Highway 3, Martin Bros., Beaumont, \$63,010; large drainage structures, S. A. Sharkey, Houston, \$22,973.

In Jones County—9.684 mi. conc. Highway 30, Stamford to point north of Anson, Julian C. Field, Denison, \$215,689; Karnes County—5.740 mi. grading, draining, Highway 16, Wilson County line to end of Federal Aid Project 434-D, S. F. Vann, Box 267, Trinity, \$30,306; Wilson County—9.065 mi. grading, draining, Highway 16, point south of Floresville to Karnes County line, S. F. Vann, \$52,653; Jackson County—7.721 mi. grading, draining, Highway 12, Ganado to Edna, H. E. Denny, 218 Sidney St., Houston, \$31,315; Goliad County—12.848 mi. Highway 12, Victoria County line to Goliad, H. G. Great-house, W. Sixth St., Austin, \$30,268; Calhoun County—5.473 mi. grading, draining, shell surface, Guadalupe River to Green Lake, Martin Bros., Beaumont, \$86,904; Navarro County—1.067 mi. conc., Highway 22, Corsicana to Orphans Home, F. P. McElwraith, Corsicana, \$25,619; Victoria County—15.009 mi. grading, draining, Highway 12, Jackson County line to Victoria, S. F. Vann, Trinity, \$53,450; pile bridge, Dean Word, Itasca, \$17,020.

Texas—State Highway Comm., Austin, let contracts for 8 roads, 6 bridges: Baylor County—20.579 mi. grading, draining, Highway 24, Seymour to Archer County line, Carey Bros., Anson, \$93,363; Taylor County—10.257 mi. Highway 1, Abilene to Federal Aid Project 77, Southwestern Bitulithic Co., Box 266, Sta. A, San Antonio, \$237,247; Hale County—37.230 mi. grading, draining, Lubbock County line to Swisher County line, Womack Construction Co., Sherman, \$69,464; Cherokee County—9.553 mi. grading, draining, Highway 43, near Cherokee County line to Jacksonville, D. H. Purvis & Son, Box 706, Fort Worth, \$59,859; Henderson County—7.840 mi. Highway 31, Murchison to Athens, J. S. Moore & Sons, Lufkin, \$46,336; Wharton County—9.844 mi. conc., Highway 12, Wharton to point near Fort Bend County line, King S. Heath, San Diego, Cal., \$209,453; Milam County—4.555 mi. grading, draining, Highway 43, Thorndale to Road Dist. 10 line, Thomas Ratcliffe, Rogers, \$34,144; 4 bridges, \$94,074; Hardin County—2.37 mi. grading, draining, shell surface, Highway 40, Hester Switch to Longs Station, John Thompson & Son, San

Augustine, \$66,765; McCulloch County—255 lin. ft. rein. conc. girder bridge over Brady Creek, Highway 9, McKeown & Word, Stephenville, \$21,166; Kent County—804 mi. bridge on Highway 74, 29-30 timber spans, conc. pile bent, earth approaches, Gaines & Yeokum, 519 1/2 N. Main St., Oklahoma City, \$48,236.

Tex., Amarillo—City let contract to Amarillo Construction Co., Seventh and Courtney St., \$45,879, for 19,043 sq. yd. 2 course penetration on 8-in. gravel paving.

Tex., Cameron—Brown & Root, Georgetown, have contract for gravel foundation and paving, including curb and gutter, Main St. to and beyond Southern Pacific depot.

Tex., Houston—City, W. A. Moore, Sec., let contract to Gulf Bitulithic Co., 2820 Polk St., \$14,000, to pave Live Oak St., 52-ft. wide, Texas to Polk Ave.

Tex., Orange—Cassie Peveto, has contract to gravel 3 mi. Peveto road, connecting Lemonville and Mauriceville roads.

Tex., Weslaco—City, Edw. R. Waller, Comptroller, let contract to Brown & Root, Georgetown, \$135,200, for 70,000 sq. yd. 6-in. gravel compact base, 1 1/2-in. rock asphalt top paving, etc.; Ben T. Sanders, Engr. 7-12

W. Va., Follansbee—City, Delmar Jenkins, Mgr., let contract to Cass & Otto, Wheeling, \$23,582, for 2204 ft. 18-ft. rein. cement conc. paving on Neville, Linden and Highland St., curbing, grading. 6-21

W. Va., Parkersburg—Parkersburg Construction Co. has contract for 9 paving projects.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Guntersville—City plans installing sanitary sewer system; Robert & Co., Inc., Engrs., Atlanta, Ga.

Ala., Jackson—City plans installing sanitary sewers.

Ark., Little Rock—Sewer Improvement Dist. No. 113 received low bid at \$35,700 from L. L. McEachin Const. Co., Home Ins. Bldg., for sanitary sewers in Hollenberg and Lincoln Park additions.

Ark., Sheridan—Sewer Improvement Dist. No. 1 has preliminary plans for sanitary sewer system, laterals and disposal plant.

D. C., Washington—Dist. Commrs. receive bids Aug. 21 for sewers. See Want Section—Bids Asked.

D. C., Washington—Dist. Commrs. let following sewer contracts: To Warren F. Brenizer Co., 101 M St., at \$7542 for storm sewer on Rittenhouse St., between Broad Branch Road and Nevada Ave., N. W., at \$14,574 for storm sewer on Newton St. at S. Dakota Ave., and at \$14,926 for storm sewer, Michigan Ave. near 13th St., N. W.; to A. McCandlish Co., Forte St., N. E., at \$2301 for service sewer on Military Road, between 27th and 32d St., N. W.; to Adams & Marino, Sheridan and Third St., N. W., at \$52,121 for section of Rittenhouse St. trunk sewer, Third and Quackenbos St., to Ninth and Tuckerman Sts., at \$36,649 for relief sewers vicinity 37th St. and Reservoir Road, N. W.; to M. Cain & Co., Inc., 13 Sixth St., N. E., at \$8714 for section of Soapstone Valley storm sewer, at \$16,741 for storm sewer on Garfield St., between 33d and 36th Places, N. W., and at \$1773 for service sewers at 18th St. and Blagden Terrace, N. W., and on Colorado Ave., between 17th and 18th Sts., N. W. 7-12

Fla., Tampa—See Roads, Streets, Paving.

Ky., Louisville—A. A. Davis & Co., City Bank Bldg., Kansas City, Mo., low bidder at \$403,269 for Highland Park and Beechmont sewer.

La., DeQuincy—Jones & Wallace have contract for sewer improvements.

La., Port Allen—City having survey made by V. J. Voorhies, Engr. for sewerage system.

La., Tallulah—City install \$100,000 sanitary sewer system.

Md., Baltimore—N. Martell, 4400 Vesta Ave., has contract at \$58,730 for sewer drains in Sewer Dist. J-5. Sanitary Contr. 249.

Md., Hagerstown—City plans \$30,000 sewers in W. Washington St.; W. Sice, Engr.

Mo., St. Joseph—Bd. of Public Works let contract to Judson Engineering and Construction Co., 1811 Faraon St., for Highland Ave. main sewer; Hugh Devlin for district sewer No. 139; W. B. Kelly & Co., for storm sewer along south city limits.

Mo., St. Louis—Frazier-Davis Construction Co., Vandeventer and Lindell Blvd., low bidder at \$237,795 for second section of sewer system extending from north side of Francis Park to Penrod Ave.; Riley Contracting Co., at \$289,780, for third section north from Penrod Ave. to Scanlon Ave. 7-12

N. C., Durham—Burlington Construction Co. has contract for extension of Hope Valley sewer line; cost \$30,000.

Okla., Beaver—Town, A. L. Kimball, Mayor, advises no improvements to sewers contemplated. 8-2

Okla., Clinton—City plans sewer extension; W. A. Shouse, City Clk.

Okla., Frederick—Benham Engineering Co., Gumbel Bldg., Kansas City, Mo., preparing plans for sewer extension in Gladstone Addition.

Okla., Oklahoma City—The Koller Co. has contract for storm sewer, Forty-first St., from Backwelder to Georga Aves.

Okla., Pauls Valley—City plans sewers in Willow, Ash, Pecan and Hickory Sts.; H. Harris, Engr.

Okla., Tulsa—City let contract to E. G. Fike & Co., 114 1/2 E. Second St., at \$24,600 for storm sewers in Dist. No. 35-26.

Okla., Weatherford—City voted \$45,000 sanitary sewer bonds; V. V. Long & Co., Engrs., Oklahoma City.

Tenn., Camden—See Water Works.

Tenn., Elizabethton—City voted sewer bonds. See Financial News.

Tenn., Knoxville—City voted \$2,000,000 sewer bonds. 6-14

Tenn., Nashville—Bd. of Public Works construct sanitary trunk sewer extension along 53d Ave., Illinois Ave., clay pipe sewer, 52d Ave. and Euclid Ave.

Tex., Houston—See Roads, Streets, Paving.

Tex., Turkey—M. R. Diggs, 702 N. Glasgow St., Dallas, lately noted granted 50 year sewer franchise, let contract to W. G. Culum, Central Bank Bldg., Dallas, for sewer system and disposal plant. 5-17

Va., Hopewell—City plans issuing \$50,000 sewer bonds. See Financial News.

Va., Norfolk—City will expend \$38,000 on improvement to subdivision of Oak Grove Corp., including sewers and streets.

W. Va., Parkersburg—B. M. Chaplin & Co. has contract at \$28,170 for sanitary sewers in park section.

Telephone Systems

N. C., Charlotte—Southern Bell and Telephone Co., Inc., F. M. Craft, Ch. Engr., Atlanta, Ga., erecting \$450,000 exchange; following sub-contract let: To Carolina Steel and Iron Co., Greensboro, for 400 tons of struct. steel; electric work, R. H. Bouligny, Inc., 27 W. First St.; heating, A. Z. Price Co., Latta Arcade; marble, tile and terrazzo work, McDaniel-Federal Co., 508 W. Fourth St., all Charlotte; plumbing, H. M. Jackson & Co., Forsyth Bldg., Atlanta, Ga.; Marye, Alger & Vinour, Archts., 801 Walton Bldg.; Barge-Thompson Co., Gen. Contr., 136 Ellis St., both Atlanta, Ga. 8-2

N. C., Highlands—Western Carolina Telephone Co., Franklin, acquired Highlands Telephone Co., will make extensive improvements in system, include toll line from Cashiers to connect with line already owned by company and running from Cashiers to Sylva.

Tex., Graham—Interstate Commerce Comm. authorized Southwestern Bell Telephone Co., St. Louis, Mo., to acquire telephone properties of Graham Independent Telephone Co. in Graham, Young County, Tex.; and telephone properties of Monroe County Mutual Telephone Co. in Paris, Mo.

Tex., Houston—Southwestern Bell Telephone Co., St. Louis, Mo., considers erecting 3-story addition to building, Capitol and San Jacinto Sts., and 4-story addition to Fairfax Exchange on Capitol St.; cost about \$350,000.

Textile Mills

Alabama—Batson-Cook Co., Inc., West Point, Ga., general contractors for cotton mills for Alabama Mills Co., Birmingham, in Clanton, Dadeville, Fayette, Greenville, Haleyville, Jasper, Winfield, Aliceville, Rus-

sellville and Wetumpka, advise total construction program is about 65% complete; 3 of units ready for machinery, 3 additional units will be ready for machinery prior to Sept. 1; other 4 units will be ready for machinery during last week in Sept.; 5 of villages are completed and other 5 villages will be complete during Sept.; subcontractors are as follows: Steel sash, Applewhite & Lawler Co., Citizens and Southern Bank Bldg., Atlanta, Ga.; handling Fenestra sash and David Lupton's Sons Construction Co., Bona Allen Bldg., Atlanta; for plumbing, L. J. Lehotay, Opelika; Barry Plumbing Co., Talladega; C. R. Maddox, Jasper; O'Reilly & Morris Plumbing Co., Russellville; for roofing: Baker Roofing Co., Phillip Carey Co., Bona Allen Bldg.; O. A. Smith Co., 83 Marietta St., and Georgia Roofing Supply Co., all Atlanta, Ga.; Robert & Co., Inc., Engrs. and Archts., Atlanta, Ga. 7-12

Ala., Talladega—Bemis Bros. Bag Co., 601 S. Fourth St., St. Louis, Mo., will have plans ready for bids about Aug. 6 for textile mill, cost \$3,000,000; rein. conc.; brick walls; built-up roof; sprinkler system; conc. or maple floors; J. E. Sirrine & Co., Engrs., Greenville, S. C. 5-10

Fla., Miami—Chamber of Commerce, B. B. Freeland, Chrm. Industrial Comm., negotiating with Philadelphia capitalists for silk hosiery mill.

Ga., Columbus—Archer Hosiery Mills (formerly Mitchell Hosiery Mills), 900 Front Ave., applied for charter; capital \$100,000; A. Straus, Pres., J. S. Baird, Sec.-Treas.

Ga., Rome—American Chatillon Corp., Room 1115, 393 Seventh Ave., New York, advises that additional units other than those under construction, will not be erected immediately. 8-2

Ga., Shannon—Southern Brighton Mills let contract to Ingalls Iron Works Co., Birmingham, Ala., for struct. steel for mill addition; A. K. Adams & Co., 542 Plum St., N. W., Atlanta, Gen. Contr.; J. E. Sirrine & Co., Engrs., Greenville, S. C. 7-19

Ky., Paducah—Clausner Hosiery Co., Inc., advises company is not building a dyeing plant.

Ky., Paducah—Arcadia Dyeing Corp., Box 732, let contract to Gus Lockwood, 209 Fourth St., for hosiery and skein dyeing plant, 29th and Adams Sts.; 50x70 ft.; conc., brick and steel; conc. floors; built-up roof.

N. C., Sanford—Sapona Mills, Inc., capital \$150,000, chartered; John W. Simpson, J. S. Duncan.

N. C., Scotland Neck—A. McDowell, R. A. Phillips, reported, interested in establishing knitting mill.

S. C., Hartsville—Hartsville Dyeing and Finishing Co., until recently Easton Finishing Co., of Easton, Pa., completed negotiations for merger with Bronx Co., Inc., Bronx, N. Y., and latter company will move to Hartsville; machinery now being dismantled in Bronx plant preparatory to being shipped to Hartsville; have building of Easton Finishing Co., 800 ft. long; will erect additional building of 80,000 sq. ft. on 45 acre tract; for print works, construction to begin at once; Robert & Co., Atlanta, Ga., Engrs.; merged company will be incorporated under laws of South Carolina as Hartsville Print and Dye Works; company will bleach, dye and print cotton, rayon and cellulose acetate fabrics for men's, women's and children's wear; daily production about 250,000 yds. Fred B. Vogel, will be president of new company; A. L. M. Wiggins, V.-P.; Robt. W. Bole, 320 Broadway, N. Y., Treas.; Samuel L. Hayes, Supt.

S. C., Rock Hill—Red River Cotton Mills stockholders will vote Aug. 16 on issuance of \$125,000 bonds to be used for financing operations.

S. C., Whitmire—Gallivan Construction Co., Gallivan Bldg., Greenville, has contract for 4-story addition for Aragon-Baldwin Cotton Mills, Inc.; J. E. Sirrine & Co., Engrs., Greenville. 8-2

Tex., Weslaco—T. E. Carpenter, Gen. Contr., interested in establishing cotton mill. See Want Section—Machinery and Supplies.

Va., Blackstone—Klotz Silk Mfg. Co., Inc., Clifton, N. J., let contract to R. W. Cobb and R. Eddins, through Underwood & Co., Archts., Merchants Bank Bldg., Raleigh, N. C., for \$35,000 alteration and improvements to branch silk mill. 6-14

Va., Buchanan—Business Men's Club, reported, negotiating with capitalists for establishment of silk weaving plant.

Va., Covington—Industrial Rayon Corp., 98th St. and Walford Road, Cleveland, Ohio, reported, let contract to Fiske-Carter Construction Co., Worcester, Mass., and Green-

ville, S. C., at \$1,250,000 for storage warehouse, main manufacturing plant and power plant; Virginia Bridge and Iron Co., Roanoke, contract for 1500 tons struct. steel; J. E. Sirrine & Co., Engrs., Greenville. 8-2

Va., Richmond—American Rayon Products Corp., 176 Madison Ave., New York, H. A. Leander, Pres., reported, plans erecting rayon knit underwear tubing plant in South, several sites under consideration including one at Richmond.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Mobile—Bd. of City Commrs. soon receive bids for \$100,000 water works improvements, including 24-in. main from Bienville pumping station to Bienville reservoir and 100,000 gal. steel tower for Spring Hill.

Ark., Glenwood—Water Improv. Dist. No. 1 plans installing water works system.

Ark., Holly Grove—Holly Grove Water Works and Sewerage Improv. Dist., has plans by Lund Engineering Co., Home Ins. Bldg., Little Rock, for water works and sewerage system.

Ark., Risen—Arkansas Power and Light Co., Little Rock, install 50,000 gal. capacity steel tank and tower.

La., St. Francisville—Mississippi Utilities Co., Jackson, has been granted 25 year franchise and acquired water and light plant, subject to ratification by people.

Ky., Fulton—Carey Reed Co., Guaranty Bank Bldg., Lexington, has contract at \$11,669 for water main improvements in Dist. No. 1 and W. M. Hill & Sons, Fulton, at \$9239 for improvements in Dist. No. 2.

Ky., Providence—Bd. of Aldermen receives bids Aug. 15 for rectangular covered conc. reservoir, 450,000 gal. capacity; steel stand-pipe, 300,000 gal. capacity; elevated steel tank, 200,000 gal. capacity.

Miss., Hattiesburg—E. A. Finch, Citizens Bank Bldg., has contract for removal of water mains and for laying new mains. 7-12

Mo., St. Louis—Bd. of Public Service let contract to Missouri Engineering and Contracting Co., Merchants Laclede Bldg., at \$16,500 for sludge handling machinery for Howards Bend waterworks station; Holly Pneumatic System, Inc., Rialto Bldg., at \$19,775 for pneumatic conveyor coagulant house.

Mo., St. Louis—Phillip A. Rohan Boat, Boiler & Tank Co. has contract for floating boom at Chain of Rocks pumping station; Materne Heating & Power Piping, Inc., Ry. Exchange Bldg., low bidder for reconstructing heating system and installing underground steam line.

Mo., St. Louis—Holly Pneumatic Systems, Inc., Rialto Bldg., has contract at \$19,775 for conveying system for Missouri River plant of St. Louis water works, Howard Bend; Missouri Engr. & Cont. Co., Merchants Laclede Bldg., at \$16,500 for erecting sludge handling machinery; Manning, Maxwell & Moore, Inc., Rwy. Exch. Bldg., low bidder for overhead traveling crane.

N. C., New Bern—City, A. H. Bangert, Mayor, will enlarge and improve water and light plant.

Okla., Chickasha—City plans voting on \$350,000 water works improvement bonds; Benham Engineering Co., Engrs., Gumbel Bldg., Kansas City, Mo. 7-19

Okla., Fletcher—City plans \$30,000 water works; A. B. Carson, Engr., Madill.

Okla., Maud—City voted \$45,000 water works extension bonds; V. V. Long & Co., Engrs., Colcord Bldg., Oklahoma City.

Okla., Pearson, P. O. Asher—Sinclair Oil Co., Sinclair Bldg., Tulsa, build 36,000 ft. 8-in. water line to South Canadian River.

Okla., Pieher—City plans \$30,000 water works; A. C. Moore, Engr., Joplin Natl. Bank Bldg., Joplin.

Okla., Poteau—City has preliminary plans for water works extension; J. Page, Engr., Poteau.

Okla., Shidler—City has preliminary plans for deep well water supply; R. Flood, Engr., Drumright.

Tenn., Camden—City defeated water and sewer bonds. 7-26

Texas—General Water Works Corp., 50 Broadway, N. Y., R. E. Shotts, Pres., L. A. Phillips, V.-P., S. R. Jones, Sec.; acquired control of Freeport Water Co., Freeport, Pa.; Breckenridge Water Co., Breckenridge, Texas; Water Utilities Co., Fort Worth, Texas; Winchester Water Works Co., Winchester, Ky. 7-19

Tex., Brownsville—Dayton-Dowd Co., Quincy, Ill., has contract for pumping unit at Villa Nueva near here for Water Improvement, Dist. No. 6; W. E. Anderson, Engr., San Benito.

Tex., Dallas—City Comsn. deferred date of opening bids until Sept. 1 for \$4,000,000 improvements to water works. 7-26

Tex., Houston—J. W. Zempter Co. has contract for laying 8-in. water main on Tuam Ave. from Milan to Helena Sts.

Tex., Pampa—D. L. McDonald, Amarillo Bldg., Amarillo, has contract at \$25,000 for drilling water well.

Tex., San Antonio—U. S. Gov., Capt. F. W. Arnold, Quartermaster, Brooks Field, receives bids Aug. 10 for furnishing labor, tools and equipment (but not material) for replacing old pipe and laying additional water pipe at Brooks Field.

Tex., Wichita Falls—City plans water bond election. See Financial News.

Va., Westhampton, R. Sta. Richmond—Pace Construction Co., Roanoke, low bidder at \$18,000 for 8 miles lateral water mains and house connections.

Woodworking Plants

Ark., Mena—H. Wann Co. acquired 4 acre tract on Bethesda Ave., erect plant for manufacture of barrel headings and staves.

La., Houlltonville—Juan Argote Co., Inc., 205 S. Peters St., New Orleans, acquired old Fatheree & Parker mill site and plant; will remodel for manufacture of mahogany.

Va., Martinsville—Stockholders of Craig Furniture Co. voted to reorganize company and increase capital, \$1,000,000 to \$2,000,000; W. H. Bassett, Bassett, Va., will head reorganized company.

FIRE DAMAGE

Ark., Bay—Warehouse owned by J. W. Kitterman, Jonesboro; loss about \$7000.

Ark., El Dorado—El Dorado laundry and dry cleaning plant; loss \$150,000; Jim Goodwin, Mgr.

Fla., Tampa—Building, 1007-09 Franklin St., owned by J. W. Henderson, occupied by Gordon Dry Goods Co.; loss \$100,000.

Ga., Midville—Midville Veneer Co.'s plant; loss \$150,000.

Ga., Sparks—Administration building and girls' dormitory, Sparks College; loss \$65,000; structures owned by Geo. B. Owens, 504 Azeele St., Tampa, Fla., and associates.

Md., Berlin—Incubator house of Jarvis Poultry Farms; loss \$25,000.

Md., Easton—Candy and potato chip factory; loss \$23,000; George L. Walker, owner.

N. C., Leaksville—Flour and corn mill of Moore Milling; loss \$75,000.

N. C., Spring Hope—Montgomery Lumber Co.'s plant; loss \$100,000.

Tex., Dallas—Quality Bread Co.'s bakery, 2817 Williams St.; loss \$25,000.

Tex., Houston—Building at Blue Ridge State Prison Farm near Houston; J. N. Rozzell, Mgr.

Tex., San Antonio—U. S. Army Air Service Hangar, Kelly Field; loss \$93,000.

W. Va., Logan—Riverside Hotel, owned by Mrs. J. F. Stump, Huntington; loss \$40,000; Colonial Apt., owned by J. B. Vicks; loss \$15,000; John Mitchell's grocery; loss \$5000.

W. Va., Terra Alta—Building owned by Edw. Elliott, occupied by C. A. Dodge; loss \$10,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., Tampa—Fellowship Lodge, A. F. & A. M., recently organized, care John R. Henri, 2905 Azelee St., soon let contract for \$45,000 temple, Memorial Highway and Gomez Ave.; 2 stories, 50x110 ft., fireproof, probably buff brick.

Ga., Atlanta—Marye, Alger & Vinour, Archts., Walton Bldg., receive bids Aug. 15 for mechanical work on \$1,500,000 Shrine Mosque; under constr. by C. A. D. Bayley & Co., Inc., Contrs., Citizens & Southern Bk. Bldg., Atlanta, and Interstate Bk. Bldg., New Orleans, La.; following firms estimating: Elect. work, Ed. C. Parker, Candler Bldg.; Walker Electric & Plumbing Co., Bona Allen Bldg.; Sam Donelson, 101 Marietta St.; McGaughey Electric Co., 135 Nassau St., N. W.; J. M. Clayton Co., 63 Cone St., N. W.; Bailey-Oliver Electric Co., 111 Walton Way, N. W.; Cleveland Browning Electric & Elevator Co., 557 Marietta St., N. W.; Bryan Electric Co., 58 Edgewood Ave., N. E.; plumbing and heating, Englehart Co., 128 Cone St., N. W.; Loftis Plumbing Co., 440 Marietta St., N. W.; Wm. A. Manning, 353 W. Peachtree St.; Farrell Heating & Plumbing Co., 248 Ivy St., N. E.; Brumelow Heating & Plumbing Co., 200 Walton Way, N. W.; Smith & Guest, 19 Houston St., N. E.; Seckinger Bros. Co., Forsyth Bldg.; H. M. Jackson & Co., Inc., Forsyth Bldg.; sprinkler system, Rockwood Sprinkler Co., 631 Wells St., S. W.; Grinnell Co., 276 Marietta St., N. W.; Independent Aetna Sprinkler Co., Healey Bldg.; Globe Automatic Sprinkler Co., 323 Peachtree St., N. E.; Automatic Sprinkler Co. of America, Candler Bldg., all Atlanta. 6-23

Md., Baltimore—Scottish Rite Holding Co., J. Edward Richardson, Pres., 3800 Charles St. E., soon have final draft of plans for \$1,000,000 Scottish Rite Temple, Charles St. Ave. and 39th St., completed by Clyde N. & Nelson Prie, Lexington Bldg., and John Russell Pope, 542 Fifth Ave., New York; 192x185 ft.; constr. to begin early in 1929; inaugurate \$500,000 campaign in Oct. 3-29

Miss., Vicksburg—Young Men's Christian Assn., J. W. Garrett, Chmn., Bldg. Comm., receives bids until about Aug. 14 for fourth story addition; brick, struct. steel and iron work; \$50,000; Emmett J. Hull, Archt., Merch. Bank Bldg., Jackson.

Mo., Jefferson City—Salvation Army open bids about Sept. 10 for steel and brick building; stone trim, 3 stories, 50x80 ft., hardwood floors, conc. foundation, comp. roof; \$25,000; LeRoy Parrish, Archt., Box 562.

Tex., Cleburne—Masonic Temple Corp., W. A. Scott, Pres., erect \$80,000 temple; 3 stories, 80x80 ft.

Tex., Houston—Masonic Building Assn., J. C. Kidd, Sec.-Treas., 919½ Main St., erect temple.

City and County

Ga., Atlanta—City Hall Committee of City Council, Howard G. McCutcheon, Chmn., recommended acceptance of \$840,700 bid from National Construction Co., Atlanta, for 15-story city hall; G. Lloyd Preacher & Co., Inc., Archts.-Engrs., Wynne-Claughton Building. 8-2

Ky., Paducah—City Commission erect pest house; bids in.

La., Gretna—Following contractors estimating on remodeling and addition to courthouse, bids Aug. 24 by Jefferson Parish Police Jury: Pratt Farnsworth, Canal Bank Bldg.; Geary-Oakes Co., Q. & C. Bldg.; Dudley & Wike Construction Co., Stern Bldg.; O. M. Gwin Construction Co., Union Indemnity Bldg.; H. W. Bond & Bro., 1019 Constantinople St.; Gervais F. Favrot, Balter Bldg.; J. A. Petty & Sons, Inc., Godchaux Bldg.; Thos. H. Brockman, Hibernia Bank Bldg.; R. P. Farnsworth & Co., Maritime Bldg.; J. A. Haase, Jr., 916 Union St.; Geo. J. Glover Co., Inc., Whitney Bldg.; Lionel F. Favret, Louisiana Bldg.; Caldwell Bros., 816 Howard St.; J. V. & R. T. Burkes, New Orleans Bank Bldg.; Theo. L. Perrier, Archt., Maritime Bldg., all New Orleans. 7-19

Mo., St. Louis—Bd. of Public Service, City Hall, receives bids Aug. 21 for brick and rein. conc. building for Water Dept. offices; \$35,000, 2 stories and basement, 50x100 ft.,

conc. foundation, terra cotta trim, comp. roof, steam heat; Albert Osburg, Archt., City Hall; L. R. Bowen, City Engr. 5-10

N. C., Hickory—City, Geo. L. Lyerly, Mayor, receives bids Aug. 16 to remodel jail; 8 additional cells, 2 offices; Q. E. Herman, Archt.

Tenn., Knoxville—City defeated \$350,000 auditorium bonds. 6-14

Tex., St. Jo—City votes Aug. 15 on \$25,000 city hall and fire station bonds. Address City Council.

Va., Roanoke—City Council erect fire station, Melrose Ave. and 24th St.; W. P. Hunter, City Mgr., advises will not take bids until middle of Sept.

Dwellings

Ala., Athens—L. C. Hightower is president of building corporation to erect forty \$1000 dwellings for additional operatives of Volunteer Knitting Mills. 6-22

Ala., Birmingham—W. E. Dawson, Empire Bldg., erect frame residence, Chestnut Hill; 2 stories, comp. roof; Warren, Knight & Davis, Archts., Empire Bldg.; bids in.

Ala., Birmingham—Chas. Edwards, care Jesse W. Green, 708 Educational Bldg., soon call new bids for brick veneer residence, Mountain Brooke Estates; 2 stories, tile roof, steam heat.

Ala., Birmingham—Dr. J. R. Garber, 2600 N. 11th Ave., erect brick veneer residence, Milner Heights; 2 stories, comp. roof, steam heat; D. O. Whildin, Archt., 515 N. 21st St.; bids in.

Ala., Birmingham—Mrs. S. M. Park, 1418 N. 17th St., plans 2-story residence, Colonial Hills; bids in; Denham & Denham, Archts., Comer Bldg.

D. C., Washington—A. F. Riddell, 1201 M St., N. W., has permit for 5 frame dwellings, 3610-18 S. Dakota Ave., N. E.; 2 stories; \$32,500.

D. C., Washington—C. S. Duncan, Transportation Bldg., has permit for \$17,000 residence, 2871 Audubon Terrace, N. W.; 2 stories, tile.

D. C., Washington—F. W. Harrison has permit for \$11,000 residence, 7405 Fourteenth St., N. W.; brick and tile, 2 stories.

D. C., Washington—Chas. D. Sager, 3024 Wisconsin Ave., N. W., has permit for 2 brick and tile dwellings, 500-02 Twenty-fourth St., N. E.; 2 stories; \$10,000.

D. C., Washington—Geo. W. Small has permit for \$11,000 residence, 3601 Van Ness St., N. W.; brick, 2 stories.

D. C., Washington—D. C. Gruver, 927 15th St., N. W., has permit for 8 brick and tile dwellings, 3834-44 Beecher St., N. W.; 2 stories; \$40,000.

D. C., Washington—Frank R. Jelleff, 1216 F St., has permit for \$38,000 residence, 2439 Wyoming Ave., N. W.; brick and tile, 2 stories.

D. C., Washington—Wm. A. Hill Co., 730 17th St., N. W., has permit for \$70,000 dwelling, 2829 Woodland Drive, N. W.; 3 stories, brick and tile.

D. C., Washington—A. S. J. Atkinson, Archt., 3801 Macomb St., N. W., has permit for 3 brick dwellings, 3800-15-19 Blaine St., N. E.; 2 stories; \$13,500.

D. C., Washington—Alfred H. Lawson has permit for brick residence, 4901 Indian Lane, N. W.; 3 stories; \$16,500.

D. C., Washington—Wm. Sabine, Munsey Bldg., has permit for \$30,000 residence, 7914 Orchid St., N. W.; 2 stories, brick.

D. C., Washington—Dr. S. A. Alexander, Rochambeau Apt., has permit for stone residence, 4851 Indian Lane, N. W.; 3 stories; \$20,000.

D. C., Washington—Duncan Phillips, 1218 Connecticut Ave., N. W., has permit for \$150,000 residence, 2101 Foxhall Road, N. W.; brick, 2 stories.

D. C., Washington—G. Bryan Pitts, Chmn. of Bd. of F. H. Smith Co., 815 15th St., N. W., plans residence, Bradley Blvd. and Seven Locks Road, Bradley Hills.

Fla., Kissimmee—Frank O. King, Chicago, Ill., erect \$25,000 Spanish type residence;

42x96 ft.; J. A. Armstrong, Archt., 127 N. Dearborn St., Chicago.

Fla., Canal Point—Southern Sugar Co., subsidiary of Celotex Co., 645 N. Michigan Ave., Chicago, erect 52 single and 24 double employees' quarters, misc. wash houses, bunk houses, etc.; frame; Clark J. Lawrence, Archt., Lakeview Arcade, Palm Beach; bids Aug. 6.

Fla., Daytona Beach—B. J. Donnelly, Boston, Mass., erect \$35,000 winter residence; clay tile, stucco, 2 stories, 117x35 ft., tile and hardwood floors, tile roof; Kiehnel & Elliott, Archts., Seybold Bldg., Miami, Fla. See Want Section—Building Material and Equipment. 8-2

Fla., Miami Beach—S. B. Banning erect \$15,000 residence, 3429 Alton Road.

Fla., Miami Beach—Fred W. Vanderpool, 27 N. E. 49th St., erect \$12,000 residence; 2 stories.

Fla., Miami Beach—Jos. Waxman, Toronto, Canada, erect \$10,000 residence, Pennsylvania Ave. near Eighth St.; conc. block, 2 stories, 30x50 ft., oak floors, tile and comp. roof, 3-car garage; Henry J. Moloney, Archt., Ingraham Bldg., Miami.

Fla., Miami—Wm. I. Phillips, 26 N. Bay Shore Drive, remodel and enlarge residence, 89th St. and Belmar Ave.; hollow tile, rubber and wood floors, tile roof, 37x46 ft.; Nieder & Seiler, Archts., Calumet Bldg.

Fla., Palm Beach—Maurice Fatio erect residence, via Del Mar; Treanor & Fatio, Archts., Phipps Plaza.

Fla., Palm Beach—Alexander McKay, New York, erect residence, via Bellaria; Treanor & Fatio, Archts., Phipps Plaza, Palm Beach.

Bank and Office

Fla., Jacksonville—Title and Trust Co. of Florida receives bids Aug. 10 for brick and rein. conc. office building, Forsyth and Newnan Sts.; 3 stories and basement, 52x105 ft., conc. footings; Marsh & Saxelbye, Archts., Consolidated Bldg.; following contractors estimating: C. H. Johnson; A. Bentley & Sons, Atlantic Natl. Bank Bldg.; G. W. Hessler, Inc., St. Johns Ave. C. J. Davis, Jr., Phyllis St.; D. D. Thomas & Sons, Hildebrandt St.; W. T. Hadlow, 32 W. Forsyth St. O. P. Woodcock, Lutz Bldg.; S. S. Jacobs Co., Lutz Bldg.; H. S. Baird, 3658 Oak St.; Arthur Perry, Jr., Bisbee Bldg.; W. J. Bryson, 14th St. 7-12

Ga., Atlanta—Rhodes-Haverty Co. receives bids Sept. 15 for fireproof office building, Peachtree, James and Forsyth Sts.; \$750,000, terra cotta and brick or granite and brick, rein. conc. and struct. steel, 17 stories and basement and 3-story tower, 82x95x80 ft., 4 elevators; 6 stores on ground floor; 85,000 sq. ft. floor space; Pringle & Smith, Archts., Norris Bldg.; following contractors estimating: John W. Cowper Co., Healey Bldg.; A. J. Krebs, Walton Bldg.; Barge-Thompson Co., 136 Ellis St., N. E.; Carr Construction Co., Candler Bldg.; Southern Ferro Concrete Co., 70 Ellis St., N. E.; Foundation Co.; Seaboard and Southern Construction Co., both 101 Marietta St., all Atlanta; Angle-Blackford Co., American Exch. Bank Bldg., Greensboro, N. C. 7-26

La., Natchitoches—Peoples Bank, Saml. Levy, Pres., erect \$20,000 bank building.

La., New Orleans—American Bank & Trust Co., 140 Carondelet St., receives bids Sept. 4 for 21-story bank and office bldg., Carondelet and Common Sts.; limestone, polished granite base, 106x107 ft., 315 ft. high, 3 setbacks, steel frame, hollow tile and wood floors, piling and rein. conc. foundation, comp. roof, 5 high-speed elevators, safety boxes, cold storage vaults in basement served by special elevator, orna. marble stairs; Moise H. Goldstein, Archt., Hibernia Bank Bldg. 5-31

Mo., Kansas City—Wight & Wight, Archts., First Natl. Bank Bldg., have drawn tentative plans for 28-story bank and office building, Tenth St. and Baltimore Ave.; negotiations for project not yet definite; structure would house in part New England National Bank and Trust Co.; holding company to erect building would be called Baltimore Avenue and Tenth Street Building Corp., financed by G. L. Ohrstrom & Co., New York; about \$2,500,000. 7-12

N. C., Charlotte—American Trust Co., Word H. Wood, Pres., has tentative plans by Lockwood, Greene & Co., Engrs., 24 Federal St., Boston, Mass., and Charlotte, for \$1,200,000 bank and office building, S. Tryon and W. Fourth Sts.; constr. to start when office space demand justifies, probably within about 2 years.

N. C., Hickory—Dr. H. C. Menzies erect \$35,000 office building; fireproof, cream face brick, limestone trim; Q. E. Herman, Archt.

Tenn., Memphis—Bank of Commerce and Trust Co., R. Brinkley Snowden, Chmn., Bldg. Comm., will have plans ready by Aug. 20 for bids on fire- and burglarproof bank and office building, Second and Monroe Sts.; \$1,250,000, set-back type, 150x150 ft., 60 ft. high above street level, 3 stories and basement, 75,000 sq. ft. working space, polished granite; ornate bronze doors for both entrances; cast iron, steel and plate glass, windows and frames; marble walls, columns and pilasters on first floor, bronze and plate glass doors, elevator enclosures and bank screens; 30 tellers cages; book vaults, 25x90-ft. rein. conc. and steel bank vault, safe deposit vaults for 15,000 boxes; ventilating unit; 3 elevators; Harker & Cairns, Archts., 123 S. Court St. 6-21

Tenn., Nashville—E. A. Covington & Co., Bell Bldg., remodel building.

Tex., San Antonio—San Antonio National Bank, 213 W. Commerce St., erect 25x16-ft. one-room addition; stone; Herff & Jones, Archts., S. A. Loan and Tr. Co. Bldg.; about ready for bids.

Va., Norfolk—Royster Investment Co., W. S. Royster, Pres., remodel ground floor of Royster Bldg.; \$50,000; Calrow, Browne & FitzGibbon, Archts., Royster Bldg.

Churches

Ala., San Benito—Church of Christ rejected bids for \$10,000 building; brick veneer, conc. foundation, 1 story and basement; R. E. Ewing, Archt., Harlingen. 7-26

Ga., Atlanta—Payne Memorial Methodist Church erect building. Address The Pastor.

Mo., Kansas City—Covenant Presbyterian Church, 60th St. and Swope Pkwy., H. H. Boyd, member, Bldg. Comm., has broken ground for \$30,000 addition; auditorium seat 300; Sunday school accommodate 700.

Okl., Edmond—Methodist Church, Rev. Geo. Fenn, Pastor, soon have plans ready for \$50,000 bldg.; brick and conc., 2 stories, pine floors and finish, struct. and rein. iron, comp. roof, furnace heat; Hawk & Parr, Archts., Cotton Exch. Bldg., Oklahoma City. 2-23

Okl., Tulsa—Grace-University M. E. Church, care G. A. Baldwin, member, 1527 E. Third St., selected Smith & Senter, Phil-tower Bldg., as architects for English or Collegiate Gothic type church, Fifth and College Aves. 8-2

S. C., Greenville—First Presbyterian Church ready for bids about Aug. 10 for remodeling main auditorium and erecting Sunday school; \$125,000 to \$150,000, tudor Gothic type, stucco, artificial stone trim, 3 stories, 106x106 ft., conc., tile, composition and oak floors, conc. foundation, slate roof; accommodate 1250; furnishings, equipment, etc., \$25,000; Herbert L. Cain, Archt., Grace Securities Bldg., Richmond, Va., and 1718 Cherry St., Philadelphia, Pa. 11-3

Tenn., Knoxville—Church of God in Christ, Rev. C. F. Kyle, Pastor, soon start work on bldg., 212 Maria St.; brick, 46x70 ft., accommodate 500.

Tex., Beaumont—Magnolia Baptist Church, R. E. Stephens, Financial Sec., plans \$75,000 building.

Tex., Mercedes—Immanuel Lutheran Church has low bid at \$21,660 from Jacob Fossler, Mercedes, for auditorium and basement; Fichter & Brooker, Archts., Akron, Ohio. 6-21

Tex., San Antonio—Highland Park Baptist Church, S. Hackberry and Kayton Aves., receiving bids, date not set, for church and Sunday school; \$50,000, conc., face brick tile, 2 stories and basement, L shape, 90x140 ft., wood and cement floors, tile roof; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg. Address Mr. Hopkins, care Exchange Realty Co., Navarro St. 6-14

Va., Williamsburg—Dr. Wm. A. R. Goodwin and associates erect church and Sunday school for Williamsburg Baptist Church.

Ga., Atlanta—Melvin Realty Co. erect \$12,000 duplex, 827 Argonne Ave., N. E.; brick veneer, 2 stories.

Ky., Louisville—M. J. Murphy, Archt., 1020 Bardstown Road, erect \$10,000 residence; brick veneer.

Ky., Paducah—Jos. James, 26 Washington St., erect 2 face brick dwellings, 329-31 N. 16th St.; 1 story and basement, hardwood and yellow pine floors, tile baths, asphalt shingle roofs, hot air heat; \$12,000; Harry Hester, Contr., R. R. No. 2.

Ky., Princeton—Dr. Frank D. Linton erect \$10,000 frame residence; 1 story and basement, hardwood floors, tile baths, asbestos shingle roofs, hot air heat; G. Tandy Smith, Archt., Guthrie Bldg., Paducah.

Md., Baltimore—Harry Hardie, Curtain Ave., erect residence, Winding Way, Poplar Hill.

Md., Baltimore—Woodhaven Development Co. erect 21 dwellings, 400 block Woodhaven Ave.; 2 stories, brick; \$105,000.

Mo., Clayton, St. Louis—Belle F. Stephanis, 610 Chestnut St., erect \$12,000 residence and garage, Alta Dena; brick, 2 stories and basement, hardwood floors, tile bath, slate roof, hot water heat; Nolte & Nauman, Archts., Fullerton Bldg.; Geo. F. Bergfeld Co., Contr., 610 Chestnut.

Mo., Clayton, St. Louis—G. B. Bullock, 1003 Fullerton Bldg., erect \$22,000 residence, Carrswold; brick, 30x59 ft.

Mo., Kansas City—Dr. Sam Roberts, Federal Reserve Bank Bldg., erect \$75,000 hollow tile and stucco residence; 2 stories and basement; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg.

Mo., Normandy, St. Louis—H. J. Meyer, 5508 Easton Ave., let contract to Aug. Kaiser, 5237 Maple Ave., for \$15,000 residence, Bel-lerive Acres; brick, 2 stories and basement, 51x40 ft., hardwood floors, tile bath, comp. roof, hot water heat. 8-2

Mo., St. Louis—N. W. Lampe, 5450 Milentz Ave., erect \$10,000 brick residence; 1½ stories and basement, 27x52 ft., hardwood floors, comp. shingle roof, hot air heat; C. A. Prokes, Archt., 4838 Terrace Ave.; Reed-Nelson Construction Co., Contr., Amer. Exch. Bank Bldg.

Mo., St. Louis—Carl S. Lawton, 14 Algonquin Lane, Webster Groves, erect brick, stone and stucco residence, Denny Road near Manchester Road; 2½ stories and basement, 187x67 ft., hollow tile, steam heat; Preston J. Bradshaw, Archt., 718 Locust St.; Chas. B. McCormack, Contr., Columbia Bldg.

Mo., St. Louis—M. Bauman erect 2 brick dwellings, 4128-32 Utah St.; 1 story and basement, hardwood floors, tile baths, comp. shingle roofs, hot air heat; \$15,000; Hamilton Construction Co., Contr., both 220 Wainwright Bldg.

Mo., St. Louis—Elliott W. Mentz, care Ewald Schroeder Construction Co., Contr., 8316 Racquet Drive, erect brick residence, Arlmont Ave. near Glen Echo; 2 stories and basement, 29x24 ft., hardwood floors, tile bath, asphalt shingle roof, hot air heat; Schulte & Tarling, Archts., 222 Grand-St. Louis Bldg.

Mo., St. Louis—T. J. Gabbert, Jr., 2720 N. Grand Blvd., erect \$12,000 brick residence, 5700 Rhodes Ave.; 2 stories and basement, 32x29 ft., hardwood floors, tile roof and bath, hot water heat; Wm. J. Hilliard, Contr., 4118 Ravenwood Ave.

Mo., St. Louis—M. Rolinits, 5217 Nagel Ave., erect \$20,000 residence, 4349 Forest Park Blvd.; brick, 2 stories and basement, 38x66 ft., hardwood floors, tile bath, asphalt shingle roof, hot water heat; F. Rauhut & Son, Contrs., 7615 Pennsylvania Ave.

Mo., University City, St. Louis—Hervie Harrington, 5930 Enright Ave., erect \$10,000 residence, 6600 Chamberlain Ave.; brick, 2 stories and basement, 20x42 ft., hardwood floors, tile bath, tar and gravel roof, hot air heat; owner builds.

Mo., University City, St. Louis—E. M. Lloyd, 2209 Lawrence Ave., let contract to C. Dougherty, 1200 Temple Ave., for \$15,000 residence, Tulane Ave.; brick, 2 stories and basement, 28x50 ft., hardwood floors, tile bath, hot water heat; G. M. Wolf, Archt., 6635 Delmar Blvd. 7-12

N. C., Charlotte—E. S. Reid, 219 N. Tryon St., erect \$10,000 residence, 233 Wesley Ave.; brick veneer, 2 stories.

N. C., Kinston—Harvey C. Hines, W. Gordon St., erect \$65,000 fireproof residence; 2 stories, 100x42 ft., tile, marble and wood floors, tile roof; Herbert B. Hunter, Archt., 116 N. Main St., High Point; to take private bids.

Okl., Oklahoma City—R. C. McCormick, 1333 E. 16th St., erect 2 brick dwellings, 2024 W. 29th St. and 2036 W. 27th Sts.; \$10,000.

Tenn., Covington—R. W. Sanford erect \$15,000 residence; brick veneer, 2 stories and basement, about 70x48 ft., oak floors, tile baths, comp. shingle roof, steam heat; J. Frazer Smith & H. M. Burnham, Archts., Goodwyn Inst. Bldg.

Tenn., Memphis—L. E. Rugg, 207 Lemanter St., erect \$15,000 brick veneer residence, Hedgemoor; 1 story and basement, oak floors, comp. shingle roof, tile bath, steam heat; Geo. A. Swumb, Archt., Dermon Bldg.

Tenn., Memphis—J. M. Gilmer, 1989 Central Ave., considers erecting brick veneer residence, Hedgemoor; 2 stories and basement, oak floors, tile roof and bath, steam heat; garage and servants' quarters; Geo. Mahan, Jr., Archt., Amer. Bank Bldg.

Tenn., Memphis—J. A. Haley, Exch. Bldg., considers erecting \$12,500 residence, Chickasaw Gardens; 1 story and basement, oak floors, tile bath, comp. shingle roof, steam heat, garage and servants' quarters.

Tenn., Nashville—R. L. Middleton, Mayflower Apt., erect stone and stucco residence; 2 stories and basement, 32x45 ft.; John H. Parmalee, Archt., Amer. Tr. Bldg.; bids in.

Tenn., Union City—J. V. Verhine erect \$10,000 brick veneer residence; 1 story and basement, 46x64 ft., oak floors, tile bath, comp. shingle roof, hot water heat.

Tex., Dallas—R. H. Clem, 5500 Gaston St., erect 2 duplexes, 3927-31 Hawthorne St.; brick veneer, 10 rooms; \$13,000.

Tex., Fort Worth—T. P. Wilkes, Texas Natl. Bldg., erect \$16,000 residence and garage, 2018 Ward Pkwy.; brick veneer.

Tex., Fort Worth—Mobley & Delaney, Texas Natl. Bldg., erect \$15,000 residence and garage, Warner Road; brick veneer.

Tex., Fort Worth—F. K. Willford erect \$12,000 brick veneer residence, 2448 Loton Terrace East.

Tex., Houston—Marine Building and Investment Co., 2731 Washington St., erect 16 frame dwellings, 800 block Dorothy St.; 5 rooms; \$32,000.

Tex., Houston—E. F. Kelly erect \$11,000 residence, 2514 Truxillo St.; brick veneer, 10 rooms.

Tex., Houston—Geo. B. Journeay, 1114 Barkdull St., erect \$15,000 residence, 1611 North Boulevard; brick veneer, 2 stories.

Tex., Houston—L. C. Doney, Marine Bank Bldg., erect \$14,000 residence, 2522 Calumet St.; brick veneer, 8 rooms.

Tex., Houston—R. H. Pentz, Post-Dispatch Bldg., erect \$11,000 residence, 2413 Pelham St.; brick veneer, 5 rooms.

Tex., Houston—W. L. Edmundson, Second Natl. Bank Bldg., erect 3 brick veneer dwellings, 2614-21, 2709 Oak Cliff St.; 5 rooms; \$12,000.

Tex., San Antonio—Ida T. McIvor erect \$10,000 residence, Club Drive; 7 rooms.

Tex., San Antonio—Louis M. Edwards, care Cloonan Decorating Co., 615 N. St. Marys St., erect stucco residence, Margaret and Humphrey Sts.; 2 stories, 36x42 ft., rein. conc. foundation, tile and wood floors, tile roof; W. A. Miller, Archt., Builders Exch. Bldg.

Government and State

S. C., Sumter—Treasury Dept., Jas. A. Wetmore, Act. Supvy. Archt., Washington, D. C., receives new bids Aug. 14 for store-room in attic, etc., post office; drawings from Custodian at site or from office Supvy. Archt. 7-19

Va., Fort Humphreys—Constructing Quar-master has low bid at \$198,217 from J. C. Curtis, Denbigh, Va., for 3 Colonial type Engineering Company Barracks, Fort Humphreys. 7-12

Va., Quantico—Additional contractors estimating on buildings, etc., Marine Barracks, bids by Navy Dept., Bureau of Yards and Docks, Washington, D. C., date not determined; W. P. Rose, Goldsboro, N. C.; S. Mirabella & Son, Greensboro, N. C.; Consolidated Supply Co., 10 W. Chase St.; Fred E. Wright, 217 N. Calvert St., both Baltimore, Md.; Realty and Finance Corp. of Virginia, 1001 St. Planters Bank Bldg., Richmond, Va.; Truscon Steel Co., Youngstown, Ohio. Contractors estimating on power plant equipment, date of bids not determined; Fairbanks, Morse & Co., 115 E. Lombard St.; Chatard & Norris, 206 Water St., both Baltimore; Virginia Engineering Co., Inc., First Natl. Bank Bldg., Newport News, Va.; Virginia Machinery and Well Co., 1319 E. Main St., Richmond; Wilbur G. Hudson Corp., 50 Church St.; John W. Hooley, Inc., 100 E. 45th St., both New York; Harrison-Wright Co., Kinney Bldg., Charlotte, N. C.; Cochran Corp., 17th St. near Allegheny Ave.; M. H. Pagenhardt Co., 2130 Locust St., both Philadelphia, Pa. 8-2

Hospitals, Sanitariums, Etc.

Fla., Lake City—United States Veterans Bureau, Room 764, Arlington Bldg., Washington, D. C., receives bids Aug. 28 for alterations to Bldg. No. 4, U. S. Veterans Hospital; separate bids for elect. elevator; drawings from Constr. Div., Room 764.

La., Monroe—St. Francis Sanitarium receives bids Aug. 31 for fireproof hospital; conc., brick and steel, 3 stories and basement, wood, tile and comp. floors, rein. conc. foundation, asbestos shingle roof; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. See Want Section—Building Material and Equipment. 7-19

Mo., St. Louis—Saint Luke's Hospital, Delmar Blvd. and Belt Ave., Rev. Rufus D. S. Putney, Supt., selected LaBeaume & Klein, Archts., Compton Bldg., for \$1,500,000 John Fowler Diagnostic Clinic and Research Laboratory; operating rooms, pathological laboratory and X-ray department on 1 floor, 100 to 150 beds; probably no contract for 1 year. 8-2

S. C., Greenville—Greenville County have plans ready about Sept. 1 for \$150,000 tuberculosis hospital; fireproof, rein. conc. and struct. steel, brick, stone trim, comp. roof, steam heat, 75 beds; Beacham & LeGrand, Archts., 17-A North St. 2-2

Tenn., Memphis—Oakville Memorial Sanatorium Bd. of Trustees, L. W. Hughes, Chmn., soon call new bids for additions; brick and conc. white infirmary, 2 stories and basement, 66x138 ft.; frame colored infirmary, 1 story and basement, 41x168 ft.; brick and conc. laundry, 1 story and basement, 61x36 ft.; frame nurses' home, 1 story, 47x87 ft.; frame colored nurses' home, 1 story, 26x57 ft.; brick veneer physician's residence, 1 story and basement, 33x47 ft.; conc. and wood floors, comp. shingle and built-up roof, cast stone trim; \$200,000; Jones & Furbringer, Archts.; Gardner & Howe, Engrs., both Porter Bldg. 2-9

Tex., Abilene—State Bd. of Control, R. B. Walthall, Chmn., Austin, receives bids at Austin Aug. 21 for fireproof dormitory, Abilene State Hospital; \$45,000, brick, hollow tile and rein. conc., stone trim, 2 stories, 72x54 ft., conc. and maple floors, tile toilets, 20-yd. comp. roof; heat from central plant; David S. Castle Co., Archt., Alex. Bldg., Abilene. 7-19

Tex., Big Springs—Drs. Hall and Bennett extended date of bids for fireproof hospital; new date not determined; \$65,000, 2 stories and basement, 127x82 ft., terrazzo, cement and tile floors, conc. foundation, Barrett roof; Peters, Haynes & Strange, Archts., 617 Myrick Bldg., Lubbock. Address Owners. 7-26

Tex., Breckenridge—City, Adam R. Johnson, Mgr., have plans ready about Aug. 15 for \$37,000 addition to Breckenridge Hospital; brick, tile and rein. conc., 2 stories and basement, 30x88 ft.; H. F. Kuehne, Archt., Littlefield Bldg. 7-26

Tex., San Benito—San Benito Medical Society interested in establishing hospital.

Va., Charlottesville—Martha Jefferson Hospital has gifts of \$100,000 for new hospital.

Hotels and Apartments

Ala., Huntsville—Erskine Hotel Corp. considering bids of Earl Cline, 1011 N. 16th St., Birmingham, and Huntsville, Algernon Blair, 11 S. Lawrence St., Montgomery, Ala., and E. G. Holladay & Co., 151 Fourth Ave., N., Nashville, Tenn., for 12-story and basement hotel; Marr & Holman, Archts., Stahlman Bldg., Nashville. 7-26

Ala., Montgomery—House Building Co., Birmingham, erect 4-family apartment, 903 S. Perry St.; \$18,000, 2 stories, brick veneer.

D. C., Washington—Young & Oppenheimer have permit for 3 brick and tile apartments, 1413-17 D St., N. E.; 2 stories; \$20,000.

D. C., Washington—T. A. Jameson, 906 New York Ave., N. W., has permit for \$15,000 flat, 233 Eighteenth St., S. E.; brick and tile, 2 stories.

D. C., Washington—Eli Kay Building & Investment Co., 2840 Ontario Rd., N. W., Legation St.; 5 stories, rein. steel, conc., erect apartment bldg., Connecticut Ave. and brick and stone; 65 housekeeping apts. of 3 to 5 rooms and bath; garages in basement; site 190x130 ft.; Louis T. Rouleau, Archt., 1420 K St., N. W.

Fla., West Palm Beach—Florida East Coast Hotel Co. erect \$125,000 addition to dining room of Breakers Hotel; Schultze & Weaver, Archts., 17 E. 49th St.; Turner Construction Co., Conr., Graybar Bldg., both New York.

Ga., Atlanta—J. M. Sanders, Box 2081, erect \$40,000 apartment building, 862-68 Jackson St., N. E.; brick veneer, wood joists, hardwood and tile floors, stone trim, built-up roof; owner builds.

Ga., Atlanta—J. M. Sanders erect \$40,000 apartment, 862-68 Jackson St., N. E.; 2 stories and basement, 12 four-room and bath suites.

Ky., Louisville—Frank Hartman, 1505 W. Market St., erect \$12,000 brick veneer apartment, 311 S. Western Pkwy.

Ky., Louisville—H. S. Epstein, 1919 Avery St., erect \$12,000 brick apartment, 623 Linnell Ave.

La., Houma—W. J. Picone has low bid at \$30,500 from A. Garrett, Maritime Bldg., New Orleans, for hotel and garage building;

brick, hollow tile, 2 stories, 68x80 ft.; Lockett & Chachere, Archt., Balter Bldg., New Orleans.

La., Ruston—S. K. Meek, Shreveport, may erect \$150,000 hotel; 4 or 5 stories, about 80 rooms.

La., Shreveport—J. B. and Herbert Atkins, City Bk. Bldg., erect \$75,000 to \$100,000 apartment bldg., Gladstone Park; negotiations handled by W. C. Agurs.

Md., Annapolis—Cooper Apartment Corp., organized by Philip B. Cooper, Archt., Wardour, erect apartment house, Maryland Ave. and Hanover St.

Miss., Biloxi—White House Hotel receives bids Aug. 11 for 3-story, fireproof, Colonial type addition; conc., brick, hollow tile, 48 rooms; also remodel main building and cottages in connection with hotel; George B. Rogers, Archt., 1007 Antwerp Bldg., Mobile, Ala. 7-12

Mo., St. Louis—Carl Anschuetz, 3505 Sidney St., erect \$1,000,000 fireproof apartment building, Grand Blvd. near Magnolia Ave.; 10 stories, 125 suites, 3 stores, garage in connection, 2 passenger and 1 freight elevator; financing completed.

N. C., Charlotte—Charlotte Improvement Co. erect \$14,000 apartment, 1620 Fairview Ave.; brick veneer, 2 stories.

Okla., Mangum—Mangum Hotel Co. receives bids Aug. 20 at office W. T. Jeter for brick and conc. hotel; \$125,000; 6 stories; separate bids for heating and plumbing; plans from Layton, Hicks & Forsyth, Archts., Braniff Bldg., Oklahoma City. 5-17

Tex., Eagle Pass—Eagle Pass Hotel Co., erect 4-story annex to Eagle Pass Hotel; and 1-story addition to present structure; brick walls; John M. Marriott, Archt., Frost Bldg., San Antonio; about ready for bids.

Tex., El Paso—Hussmann Hotel Co., Harry L. Hussmann, Pres., erect \$700,000 addition to Hotel Hussmann; work probably start within 60 days; 300 rooms, 9 stories, 90 ft. front, brick to correspond with present building, 2 passenger, 1 freight and 1 service elevator; tentative plans call for cafeteria, convention hall to seat 700, storage garage in basement, store rooms; Guy L. Frazer, Archt., 4213 La Luz.

Tex., Lockney—Chamber of Commerce, Artie Baker, Chmn., Hotel Comn., interested in 100-room hotel; organizing corporation; plans by Kerr & Walsh, Archts., Amarillo Bldg., Amarillo.

Tex., Mercedes—Max Hessel, Mercedes, and Max Tavass, Edinburg, purchased Mercedes Hotel; plan \$250,000 hotel adjoining; 6 to 9 stories; remodel present structure.

Tex., Sabinal—Sabinal Hotel Co., care Argentum Development Corp., 331 Bedell Bldg., San Antonio, erect Spanish type hotel; 2 stories with provision for additional story, fireproof, rein. conc., brick or tile, stucco finish; 2 stores, coffee shop, etc., on first floor, 39 rooms and baths and linen room on second; Paul G. Silber & Co., Archts., Bedell Bldg.

Tex., San Antonio—Miss Ida Clendennen, 1738 Hildebrandt St., erect \$20,000 apartment building, 301-03 Warren St.; brick veneer, 28 rooms; Chas. H. Baxter, Contr., 305 Houston St.

Miscellaneous

N. C., Wade Mecum—National Traveling Salesmen's Foundation, 277 Madison Ave., New York, may erect home for retired traveling salesmen, Wade Mecum Springs.

Okla., Tulsa—Smith & Senter, Archts., Philtower Bldg., drawing plans for \$400,000 Magic City coliseum, Elgin Ave. near Fifth St.; 300 ft. base.

S. C., Greenwood—Greenwood Golf Club erect clubhouse; H shape, 23x43 ft. with two 18x44-ft. wings; 2 dining rooms, 2 kitchens, locker rooms, showers, laboratories; brick veneer, 1 story, 44x79 ft., oak floors, comp. shingle roof; See Want Section—Building Material and Equipment.

Tex., Mercedes—R. Newell Waters, Archt., Mercedes and Weslaco, drawing plans for \$30,000 clubhouse, Llano Grande golf grounds; rein. conc. foundation, showers, locker room; Mercedes Country Club, Owen Stone, Sec., Owner.

Tex., Rockport—Baker Hotel Corp., 1400 Commerce St., Dallas, E. M. and Earl Baker, plans clubhouse, connection with development of 40-acre tract for beach resort; round conc. tank, 8 ft. deep, 50 ft. diameter.

Tex., Waxahachie—Texas Baptist Dormitory, Mrs. D. C. Dove, Mgr., plans \$20,000 to \$25,000 boys' dormitory.

Railway Stations, Sheds, Etc.

Miss., Bay St. Louis—Louisville and Nashville R. R. Co., W. H. Courtenay, Ch. Engr.,

Ninth St. and Broadway, Louisville, Ky., erect new station instead of remodeling present structure; stucco over brick or tile, 125x30 ft., 2 stories, about \$50,000.

Schools

Ala., Birmingham—Jefferson County Bd. of Education erect \$35,000 six-room first unit of 16-room school, Mountain Brooke Estates; English type, 2 stories and basement, brick, stone, timber and stucco; financing through Mountain Brooke Estates; Denham & Denham, Archts., Comer Bldg.; call bids at once.

Ark., Arkadelphia—Henderson-Brown College, J. J. Galloway, Sec., receives bids Aug. 9 for dormitory; \$100,000, fireproof, 2 stories; John P. Almand, Archt., Boyle Bldg., Little Rock. 8-2

Fla., Chipley—Washington County Bd. of Public Instruction, Vernon, have plans ready in about 6 weeks for \$75,000 high school; H. H. Jones, Archt., Montgomery, Ala. 7-5

Fla., Orlando—Special Tax Dist. No. 7 votes Aug. 14 on \$30,000 school bonds. Address Orange County Bd. of Public Instruction, A. B. Johnson, Supt.

Fla., Orange Park—Clay County Bd. of Public Instruction erect school; bids in. Address County Bd. of Comms., Green Cove Springs.

Fla., St. Augustine—State Bd. of Control, P. K. Yonge, Chmn., Carling Hotel, Jacksonville, receives bids Aug. 13 for boys' dormitory, Florida State School for Deaf and Blind; Rudolph Weaver, Archt., Jacksonville. 8-2

Ga., Atlanta—City Bd. of Education, R. R. Ritchie, Asst. Supt., 41 Walker St., repair Moreland Ave. Grammar School damaged by fire; \$20,000; millwork, etc.; soon call bids.

Ga., Decatur—City Bd. of Education receives bids Aug. 10 for additions and remodeling work for 4 schools; \$70,000; brick and frame; following contractors estimating: G. F. Wells, Hapeville; L. T. Codd, Wm. F. Ehle, Wm. Alden, all Decatur; G. H. Bray, Lakewood Heights; Yost Construction Co., Grahm Construction Co., T. C. Wesley, Converse-Myers Co., Gilbert Beers, J. S. McCauley Co., all four Bona Allen Bldg., Atlanta; C. R. Justi, 561 Cresthill Ave., N. E., Edwards & Sayward, Archts., 191 Marietta Bldg., both Atlanta. 7-12

La., Amite—Tangipahoa Parish Bd. of Education, W. J. Dunn, Supt., probably call bids in Sept. for \$150,000 school; brick, stone, rein. conc., 2 stories; R. H. Goodman, Archt., Bank of Baton Rouge Bldg., Baton Rouge.

La., Cut Off—Lafourche Parish School Bd., Thibodaux, receives bids Aug. 13 for alterations and addition to school; plans from Office of Sec. of School Bd., Thibodaux.

La., Lake Charles—Calcasieu Parish School Bd. receives bids Sept. 4 for school building for LaGrange Consolidated School Dist., south of Lake Charles; rein. conc., brick, 2 stories, comp. roof, wood floors; plans from Livesay & Wiedemann, Archts., San Jacinto Life Bldg., Beaumont, Tex. 6-14

La., Mansura—Avoyelles Parish School Bd. receives bids soon for school; 2 stories, rein. conc., brick and stone trim; Wm. T. Nolan, Archt., Canal Bank Bldg. 5-10

La., Opelousas—Herman J. Duncan, Archt., Alexandria, preparing plans for \$12,000 auditorium to elementary school, remodel high school, cost \$20,000, and construct \$7000 home economics cottage on high school campus.

Md., Baltimore—Public Improvement Comn. having plans drawn by John M. MacKenzie and John K. Cross for \$200,000 Brehms Lane School, Chesterfield and Manasota Aves., to carry on work of late Geo. Norbury MacKenzie, Archt., 5 Guilford Ave.; structure brick, stone trim, 2 stories at front, 204x86 ft., slate roof. 3-15

Md., Galena—Kent County Bd. of Education, Louis C. Robinson, Supt., Chestertown, rejected bids for \$15,000 elementary school. 8-2

Md., Perryville—Cecil County School Bd. selected Clyde N. & Nelson Friz, Lexington Bldg., Baltimore, as architects for high school; other information not yet available.

Md., Suitland and Landover—Prince Georges County Bd. of Education, Upper Marlboro, receiving bids for additions to Suitland and Landover frame schools; drawings from Upman & Adams, Archts., 1003 Woodward Bldg., Washington, D. C.

Miss., Jackson—Millsaps College, W. M. Rule, Treas., advises will open bids about 60 days for Science Bldg.; Harry N. Austin, Archt. 8-2

Miss., Sandersville—Sandersville, Eratta, Red Hill and Rustin School Dist. combined in one special school dist.; voted \$50,000

bonds for high school near Sandersville on Jackson Highway; 10 or 12 classrooms, study halls, auditorium seat 600 to 700.

Miss., Senatobia—City will vote on \$10,000 bonds to help bear cost of remodeling buildings at Northwest Mississippi Junior College; \$20,000.

Mo., Marble Hill—Consolidated School Dist. No. 1 erect gymnasium.

N. C. Leaksville—Leaksville Township defeated \$500,000 school bonds. 7-21

S. C., Springfield—Springfield Consolidated High School Trustees erect \$50,000 brick high school; 2 stories, comp. built-up roof; Jas. B. Urquhart, Archt., Palmetto Bldg., Columbia. See Want Section—Building Material and Equipment. 8-2

Tenn., Jackson—City Commission erect high school; R. A. Heavner, Archt.

Tenn., Nashville—Rt. Rev. Alphonse J. Smith, 2001 W. End Ave., receives bids Aug. 16 at office Regan & Weller, Archts., 226 Derron Bldg., Memphis, for brick, stone, rein. conc. and steel boys' high school and gymnasium; \$250,000, 3 stories and basement, 153x169 ft., marble, tile, terrazzo and wood floors, conc. foundation, built-up roof. See Want Section—Building Material and Equipment.

Tex., Brady—Brady Ind. School Dist., H. P. Jordan, Pres., School Bd., selected L. Harrington Co., Bldrs. Exch. Bldg., as architects-engineers for \$125,000 high school; brick and rein. conc.

Tex., Houston—Houston Ind. School Dist. erect addition to Magnolia Park Elementary School; brick, wood joist and studs, metal lath, pine and conc. floors, tar and gravel roof; Thiel & Maddrey, Archts., Binz Bldg. 8-2

Tex., Jewett—Jewett Ind. School Dist. voted \$25,000 school addition bonds.

Tex., Palestine—City votes Sept. 15 on \$15,000 school improvement bonds. Address City Council.

Tex., Pearsall—Pearsall School Bd., care E. M. Howard, erect high school; face brick, hollow tile, 1 and 2 stories; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg., San Antonio.

Tex., San Antonio—St. Phillips P. E. Church, 2120 Dakota St., has low bid at \$22,438 from Wilkins & Rux for second unit of school; 2 stories and basement, frame and stucco, rein. conc. basement; Giles & Beckman and Williams & Williams, Asso. Archts., Moore Bldg.

Tex., Waco—Baylor University, S. P. Brooks, Pres., plans \$350,000 auditorium or chapel bldg.; funds being raised; probably soon start work; Baptists of Texas raising \$2,000,000 to liquidate debt and for enlargement of college of arts and sciences in Waco and professional schools of medicine and dentistry and the hospital in Dallas. 8-2

Va., Hopewell—City will vote on \$100,000 school bonds. Address City Council.

W. Va., Martinsburg—City votes Oct. 2 on \$125,000 school bonds, including amount for improvements to grade schools.

Stores

Ala., Anniston—Montgomery Ward & Co. let contract to A. K. Adams & Co., 542 Plum St., N. W., Atlanta, Ga., for building; brick, 2 stories, 50x120 ft.; cost \$40,000.

Ala., Birmingham—Moss Yater erect \$14,000 brick store, 115 E. Magnolia Ave.

Ala., Mobile—A. F. Long, Garland, Ala., erect drug store and meat market, Telegraph Road.

Ala., Mobile—L. Hammel Dry Goods Co., Barney L. Strauss, Pres., 7 S. Royal St., remodel bldg., Dauphin St.; work started.

Ala., Montgomery—Dr. F. P. Boswell and Dr. Geo. Blue, both Bell Bldg., erect \$20,000 to \$25,000 building, Commerce St.; 2 stories, fireproof.

Ala., North Birmingham, Birmingham—J. R. Slack, 1316 N. 33d St., started work on \$100,000 brick and terra cotta store, 3010-12 N. 27th St., leased to S. H. Kress & Co.

Fla., Miami—John M. Burdine Realty Co. remodel 2-story building, E. Flagler St. and First Ave.; \$23,500.

Fla., Miami—Wm. Burbridge, 1604 Washington Ave., erect 2 stores, 1351-55 Washington Ave.; \$10,000.

Fla., Miami Beach—S. A. Berni, 28 N. W. 13th Ave., Miami, receives bids Aug. 11 for 2-story store and apartment building, Collins Ave.; brick and rein. conc., 31x49 ft.; Geo. L. Pfeiffer, Archt., Biscayne Bank Bldg., Miami. 6-19

Fla., Tampa—J. W. Frazier, 706 Franklin St., erect \$14,000 furniture store, Florida Ave.

Road, Chicago, Ill., reported, considers leasing main dining room of Seelbach Hotel to chain store company; would expend \$100,000 to remodel.

Ky., Louisville—Miss Hattie B. Henn, 2077 Sherwood St., erect \$12,000 store and office building, E. Broadway; 2 stories; Clifford F. Reichert, Archt., Starks Bldg.

Mo., Poplar Bluff—Second Baptist Church, Lem Baker, member of Bd., and Church of Christ erect 1-story brick store bldg., Main and Cedar Sts.

N. C., Greensboro—United Cigar Stores Co. erect \$150,000 fireproof building; brick and steel, 2 stories and basement, 100x150 ft., built-up roof, metal sash, tile floors, steam or vapor heat; Chas. C. Hartmann, Archt., Jefferson Bldg., Greensboro; bids Aug. 6.

Tex., Corpus Christi—J. S. Cross, Lovenskiold Bldg., erect stucco business bldg., Staples and Marguerite Sts.; brick front, 80x60 ft.

Tex., San Antonio—Frank J. Alvis, 1029 S. Presa St., erect brick, tile and rein. conc.

Tex., Houston—Marine Building and Investment Co., 2731 Washington St., erect \$26,000 frame building, 800 Alexander St.

Ky., Louisville—Seelbach Hotel Co., Abraham Liebling, Owner, 1351 W. Roosevelt

store, Highland and Palmetto Sts.; 1 story; bids in.

Tex., San Antonio—J. J. Stevens Estate, care Emmett T. Jackson, Archt., Bldrs. Exch. Bldg., receiving bids to remodel store, E. Travis St.; new front, move elevator, brick, tile and conc., rein. steel, conc. foundation; W. E. Simpson, Const. Engr., Nat'l Bk. of Commerce Bldg.

Va., South Boston—Glass & Raiff, owners, Rayless Chain Stores, erect store, Main St.; 50x150 ft.; Heard & Chesterman, Archts., Masonic Temple Bldg., Danville.

Theaters

Louisiana—Martin H. Manion, Director, Louisiana Chamber of Commerce, New Orleans, interested in motion picture academy in Louisiana.

Mo., Joplin—Electric Theater, Reynolds Maxwell, Mgr., 515 Main St., install new front in theater; Moorish type; \$20,000; T. E. Martinie, Archt., 420 N. Wall St.

Okl., Oklahoma City—A. H. Emenhiser, Owner, Victoria Theater; G. A. Nichols, 115 N. Harvey St., and others erect Spanish type theater, E. 13th St. and Stonewall Ave.

Tex., Dallas—Oak Cliff Little Theater plans theater, Crawford St. near Fifth St., site 50 ft. front.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Mo., Sedalia—Lodge No. 125, B. P. O. E., let contract for \$60,000 clubhouse to Dean & Hancock; brick, 2 stories; V. J. DeFoe, Archt., Huntzinger Bldg., Kansas City. 7-26

Bank and Office

Md., Baltimore—Baltimore Steel Co., 1400 Eastern Ave., has contract for 250 tons struct. steel for \$200,000 Park Bank addition; stone work, Geo. Mann & Son, Washington Blvd. and B. & O. R. R.; brick, Stahl & Sprol, 630 Munsey Bldg.; Josias Pennington, Archt., Prof. Bldg.; Herman F. Doeleman, Struct. Engr., 516 N. Charles St.; Morrow Bros., Inc., Contrs., Fidelity Building. 7-26

Md., Baltimore—James H. Elkins Construction Co., Martin Bldg., Birmingham, Ala., has steel erection contract for \$3,000,000 bank and office building for Baltimore Trust Co. & Taylor & Fisher, Union Tr. Bldg., and Smith & May, Calvert Bldg., Archts.; Herman F. Doeleman, Struct. Engr., 516 N. Charles St.; J. Henry Miller, Inc., Contr., Eutaw and Franklin Sts., all Baltimore. 7-26

Mo., Springfield—Walter Sims has excavation contract for \$400,000 Medical Arts Bldg.; Heckenlively & Mark, Archts., Lander Bldg., both Springfield; Louis J. Haenni, Contr., 4304 Overhill St., Dallas, Tex. 5-31

S. C., Charleston—Citizens and Southern Bank of South Carolina let contract to Olaf Otto, Arcade Bldg., Savannah, Ga., for \$100,000 bank building, Broad and Church Sts.; stone, rein. conc. and steel, 2 stories and basement, orna. iron and steel, steel sash and doors, tile, marble and conc. work, built-up roof; plans and engineering by Mr. Otto. 7-26

Tenn., Memphis—D. A. Fisher, Inc., remodel Fisher Bldg., N. Main St.; \$18,000; new front; Joe T. Wallace, Archt., Bk. of Commerce Bldg.; E. J. Pearson, Contr., Fidelity Bk. Bldg.

Tenn., Memphis—Wyatt C. Hedrick, Archt., First Nat'l Bank Bldg., Fort Worth, Tex., and Post-Dispatch Bldg., Houston, Tex., let contract for \$2,500,000 Sterick Bldg., Madison Ave. and Third St., to Bellows-Maclay Construction Co., Construction Industries Bldg., Dallas, Tex., company to erect structure to be called Third and Madison Co., Mr. Hedrick, president and owner; 29 stories, steel frame, brick curtain walls, stone trim, 230,000 sq. ft. store and office space, 22,500 sq. ft. ground area; eight 800-ft. signal elevators; probably 3-story fireproof garage adjoining. 8-2

Tenn., Memphis—Memphis Branch, Federal Reserve Bank of St. Louis, W. H. Glasgow, local Managing Director, let contract for \$400,000 bank, Third St. and Jefferson Ave., to H. J. Gilbertson Construction Co., Graham Bldg., Memphis; stone, brick and rein. conc., 2 stories and basement, 80x128 ft., marble and tile work, bronze and orna. iron, comp. roof, steam heat; Mauran, Russell & Crowell, Archts., Chem. Bldg., St. Louis, Mo.; Jones & Furbringer, Asso. Archts., Porter Bldg., Memphis; W. H. Huff, Struct. Engr., Fullerton Bldg., St. Louis. 7-19

Tex., Brownsville—First National Bank let contract at \$21,312 to W. A. Velton for

addition; brick and terra cotta, 2 stories, 38x43 ft., conc. foundation, bonded roof; Ben C. Clark, Archt. 7-26

Tex., San Antonio—Interstate Amusement Co., general contract for \$2,000,000 Majestic Theater and office building to American Construction Co., Gulf Bldg., Houston; John Ebersson, Archt., 212 E. Superior St., Chicago, Ill. See Contracts Awarded—Theaters. 7-12

Churches

Fla., Jacksonville—American Seating Co., Masonic Temple Bldg., has pew and sanctuary equipment contract for \$250,000 first unit of \$550,000 church; Corbusier & Foster, Archts., Keith Bldg., Cleveland, Ohio; Melvin C. Greeley, Asso. Archt., 32 W. Forsyth St.; A. Bentley & Sons, Contrs., Atl. Nat'l Bank Bldg., both Jacksonville.

La., New Orleans—New Orleans Cut Stone Co., Inc., 2321 Callopie St., has stone contract at \$24,300 for \$170,000 St. Charles Ave. Presbyterian Church; struct. steel, Canal Steel Works, Inc., 2126 Poland St., \$7150; brick and masonry work, J. J. Swiler Construction Co., Inc., \$16,500; W. W. Van Meter, 606 Commercial Place. 7-26

Md., Brooklyn, Baltimore—H. E. Gray, First St. and Patapsco Ave., has conc. work contract for \$50,000 St. Johns Lutheran Church, Third St. and Washington Ave.; stone, Thos. Lamendola, 1275 William St.; iron work, Dietrich Bros., 220 Pleasant St.; excavation, Victor Pyles, Chesapeake Ave.; A. C. Leach, Archt., 411 N. Charles St. 5-10

Mo., Kansas City—Church of God, Holiness, Askew and Victor Aves., erect \$10,000 superstructure; basement in; Con Tee conc. constr., gypsum block, wood floors, asphalt roof; Ernest O. Brostrom, Archt.-Engr., 600 Reliance Bldg.; G. W. Sluthour, Contr. at site.

Tenn., Knoxville—Seventh Day Adventist Church laying foundation for \$25,000 church, Luttrell St. and Lovenia Ave.; brick, sub-basement, ground floor and auditorium; plans by Bldg. Bd., Seventh Day Adventist Church, Battle Creek, Mich.; M. E. Parmelee, Const. Archt., Cherokee Bldg., Knoxville. 6-28

Tex., Houston—First Methodist Church, 1320 Main St., remodel and redecorate bldg.; \$30,000; Jas. Ruskin Bailey, Archt., Public Nat'l Bk. Bldg.; Thos. M. Murray, Contr., Second Nat'l Bk. Bldg.

Tex., Rio Hondo—Community Church, Rev. A. N. Hudson, Pastor, let contract to Walter F. Chambers, San Benito, for \$25,000 church; rein. conc., hollow tile, brick, stone trim, 1 story, 50x70 ft.; Lloyd E. Mellor, Archt., Harlingen. 5-10

Va., Richmond—St. Paul's Church, Rev. Beverley Tucker, Jr., Rector, remodel building; rebuild organ; Baskerville & Lambert, Archts., Travellers Bldg.; Claiborne & Taylor, Contrs., Atlantic Life Bldg.

City and County

Ala., Dothan—City let contract to J. F. Holley Construction Co., 817 Nineteenth St., for \$50,000 rein. conc. stadium; Warren, Knight & Davis, Empire Bldg., Birmingham,

Ala., and Chandler C. Yonge, American Natl. Bank Bldg., Pensacola, Fla., Asso. Archts. 3-22

Ark.-Tex., Texarkana—City of Texarkana, Ark., let contract at \$231,200 to Stewart & McGehee Construction Co., Kahn Bldg., Little Rock, for municipal building; Shaw Gas and Plumbing Co., heating at \$14,830, and plumbing at \$7890; wiring, Texarkana Electric Co., \$9638; Witt, Seibert & Halsey, Archts., Texarkana Natl. Bank Bldg., Texarkana. 6-14

La., Coushatta—Craft-Rushworth, Ltd., Broad St., Lake Charles, has heating and plumbing contract at \$7917 for \$125,000 Red River Parish courthouse and jail; W. T. Nolan, Archt., Canal Bank Bldg., New Orleans; Sandquist & Snow, Inc., of Louisiana, Contrs., Alexandria. (Contract for plumbing and heating lately incorrectly reported.) 7-12

N. C., Roxboro—Person County Bd. of Commrs., A. C. Gentry, Chmn., let contract at about \$43,000 to Geo. W. Kane for jail.

Tenn., Memphis—City let contract at \$15,197 to W. C. Stout, 719 Maury St., for Fire Station No. 8, Mississippi Blvd.; brick, 2 stories, 27x75 ft., conc. floors, comp. built-up roof; Regan & Weller, Archts., Derman Bldg. 7-12

Dwellings

Ala., Birmingham—Lakeview Estates Land Co., care Allison, Russell & Withington, 2026 N. Fourth Ave., erect 3 brick veneer dwellings; 1 and 2 stories; J. C. Halstead, Archt., Lincoln Life Bldg.; Paramount Construction Co., Contr., 2026 N. Fourth.

Ark., Fort Smith—Oliver Burnett, 1110 N. 13th St., rebuild burned residence; Miller & Bullock, Contrs.

D. C., Washington—W. C. & A. N. Miller, 1119 17th St. N. W., have permit for 2 dwellings, 2934 Glover Pkwy., N. W., and 4833 Rockwood Pkwy., N. W.; stone, 2 and 2½ stories; \$29,500; owners build.

Fla., Jacksonville—Chas. J. Davis, Jr., P. O. Box 2531, erect \$90,000 residence, River Blvd. near Osceola St.; brick and stone, 4 stories; Leon T. Cheek, Contr., 1663 St. Johns Ave.

Fla., Miami Beach—Miami Beach Building Corp. erect \$15,000 dwelling, 3429 Alton Road; R. L. Weed, Archt., 328 N. E. Second Ave.; owner builds.

Fla., Miami Beach—John A. Brander, 1165 Fifth Ave., New York, has groken ground for 2 dwellings, 56th St. and N. Bay Road; cement block and stucco, 2 stories, tile and wood floors, tile roofs; \$50,000; Robt. A. Taylor, Archt.; John C. Gaffney, Contr.

Fla., Miami Beach—C. W. Braznell erect \$25,000 garage and servants' quarters, 4323 Indian Creek Drive; Russell T. Pancoast, Archt., 1139 Lincoln Road; A. F. Becker, Contr., 129 N. E. First St.

Fla., Palm Beach—H. R. Corwin & Co., Peruvian Ave., has contract for \$79,000 residence, El Bravo; Marion Sims Wyeth, Archt., Wyeth Bldg.

Fla., South Jacksonville, Jacksonville—B. N. Inman, Pres., Inman-Bonds Realty Co., 300 St. Johns Ave., erect 4 brick veneer bungalows and two 2-story shingle dwellings, Shadyside; \$45,000; A. N. Burkholder, Contr.

Ga., Atlanta—Maddox & Tisinger, 730 Chandler Bldg., erect 2 brick veneer dwellings, 579 Capitol View Ave., S. W., and 819 Gaston St., S. W.; 1 story, 6 rooms and bath, comp. roofs, air heat; \$12,000; owner builds.

Ga., Atlanta—J. Kunlansky, 1040 W. College Ave., Decatur, erect 2 brick veneer dwellings, 396-400 Ridgcrest Road, N. E.; 1 story, 6 rooms and bath; \$10,000; owner builds.

Ga., Atlanta—P. J. Hopkins, 202 Palmer Bldg., erect 2 brick veneer dwellings, 1420-50 N. Boulevard, N. E.; 6 and 7 rooms, hardwood floors, comp. roof, hot air heat; \$10,500; day labor.

Ga., Atlanta—J. F. Embry, 421 Bradford Place, S. E., erect 2 brick veneer dwellings, 997 Woodbourne Drive, S. W., and 1656 Melrose Drive, S. W.; 1 story, 6 rooms, hardwood floors, comp. roofs, hot air heat; \$10,000; owner builds.

Ga., Atlanta—Russell Bailey, 120 Montgomery Perry Drive, Ansley Park, erecting \$25,000 residence, Atwood Rd., Garden Hills.

Ga., Atlanta—Following erect residences: W. H. Burnside, 138 Kingshighway, on Ridgcrest Rd., Druid Hills; Mrs. J. L. Ramsel on Bernice St., West End; Anthony T. Kendall, 752 St. Charles Ave., N. E., on Harvard Rd.; Norman C. Sharp, 1503 Peachtree St., N. E., at Battle Ave. and Rivers Rd.; J. Z. Johnson, Clifton Rd., on N. Decatur Rd.; R. L. Gailmard on Huntington

Rd.; T. Lance on Stokes Ave.; L. O. Perkins, 981 North Ave., N. E., on Emory Circle; F. P. & Geo. J. Morris, 76 Pryor St., N. E., Contrs. for all.

Ga., Atlanta—Lucius McConnell, Arcade Bldg., erecting 2-story residence, Ponce de Leon Ave. and Springdale Rd.; F. P. & Geo. J. Morris, Contrs., 76 Pryor St., N. E. 7-26

Ga., Augusta—Bowdre Pinizy erect additions to residence, Walton Way and Glenn Ave.; Branch & Smith, Contrs., 334 Walker St.

Ga., Columbus—Chas. E. Walton, Jr., 1943 Lake Drive, let contract for \$12,000 residence to Parker A. Allen; brick, stone and stucco, 1 story, hardwood and rubber tile floors, comp. shingle roof, hot air heat; John C. Martin, Jr., Archt., Tate Drive.

Ky., Louisville—Robt. C. Kaiser erecting \$18,000 residence, Trevillian Way and Valley Vista Road; 2 stories; Clifford F. Reichert, Archt., Starks Bldg.

Ky., Mayfield—Bates Haskins, care Merritt Clothing Co., let contract to Al D. Carter for \$12,000 residence; brick veneer, 1 story and basement, semi-fireproof; G. Tandy Smith, Archt., Guthrie Bldg., Paducah. 6-7

La., New Orleans—J. J. Abher erect single dwelling, Piedmont Drive near Elder St.; E. Charbonnet, Contr., 1728 St. Philip St.

La., New Orleans—Mutual Building and Homestead Assn., 511 Carondelet St., erect \$10,000 residence, Bienville and Louisville Sts.; Aug. Frank, Contr., 3016 Paris Ave.

La., New Orleans—A. Cujane erect \$10,000 residence, Versailles Blvd. near Fontainebleau Drive; tile roof; 37x65 ft.; Edwin L. Markel, Contr., 3838 Louisiana Ave. Pkwy.

La., New Orleans—H. Ruth erect \$10,000 residence, Versailles Blvd. near Claiborne Ave.; 37x65 ft., tile roof; Edwin L. Markel, Contr., 3838 Louisiana Ave. Pkwy.

La., New Orleans—B. J. Mertzweiler, Contr., 2431 Gladiola St., erect double raised dwelling, 2775 Gladiola.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 4 frame dwellings, 313-19 North Bend Road; 1½ stories, 22x28 ft., slate roofs; \$11,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—O. B. Chisolm, 3418 Garrison Blvd., erect \$10,000 frame residence and garage, Putney Way near St. Dunstons Road; 2½ stories, 38x37.6 ft., slate roof, hot water heat; Cyril H. Hebrank, Archt., 3 E. Lexington St.; Jas. L. Hooper, Contr.

Md., Baltimore—Mutual Construction Co., 5670 York Rd., erect \$10,000 frame dwelling and garage, 207 Cedarcroft Rd.; 2½ stories, 34x25 ft. and 19x19 ft., slate roofs, hot water heat; O. H. Hampson, Archt.; owner builds.

Md., Baltimore—Chas. M. Tiemeyer, 26 W. Lexington St., erect 3-story brick addition to residence, 400 St. Paul Place; store on first floor; slag roof, steam heat; \$10,000; Benj. F. Bennett Building Co., Archt.-Contr., 123 S. Howard St.

Md., Baltimore—Realty Developers, Inc., 9 W. Mt. Royal Ave., plan 20 dwellings, Lodge Forest near Bay Shore Park; stucco, 24x28 ft., and 20x20 ft., 2 stories, porches, 5 to 8 rooms, pine floors, asphalt shingle roofs, pipeless furnaces and steam heat; plans and constr. by owner.

Md., Baltimore—Pierpont Davis erect \$10,000 residence, 1508 Normandy Place; brick, 2½ stories, 34x28 ft., slate roof, hot water heat; H. P. Crook, Archt.; Robinson & Slagle, Inc., Contrs., American Bldg.

Miss., Meridian—Fancher Cooper, care Cooper Ice Cream Co., 2313 Eighth St., erect brick veneer residence, Magnolia Drive and 43d St.; 1 story and basement, 30x60 ft., oak and pine floors, comp. shingle roof; day labor.

Mo., Clayton, St. Louis—Chas. P. Knower erect \$14,000 residence, Geyer Ave., Balmain; brick, 78x30 ft.; Fred C. Howell, Contr., 417 E. Adams St.

Mo., Clayton, St. Louis—R. Weisert, 204 Wainwright Bldg., erect \$10,000 residence and garage, Dromala Road; brick, 42x29 ft.; Edw. Lantz, Archt., Wainwright Bldg.; Emil H. Struckhoff, Contr., 7325 Wellington St.

Mo., St. Louis—H. Koberman erect 3 brick dwellings, 4112-32-40 Kingshighway; 2 stories, 22x29 ft., comp. roofs, hot air heat; \$12,000; plans and constr. by A. Koberman, both 7248 Gravois St.

Mo., St. Louis—J. C. Wilson, 6034 Etzel Ave., erect \$10,000 residence, 5856 Kennerly Ave.; brick, 2 stories and basement, 24x30 ft., hardwood floors, tile bath, hot water heat; Manske & Bartling, Archts., 410 N. Euclid Ave.; A. Ravenscraft, Contr., 5718 Spalding Ave.

Mo., St. Louis—W. Volland, 4236 W. Pine Blvd. erect 5 brick dwellings, 6400 block Lindenwood Ave.; 2 stories and basement,

24x27 ft., hardwood floors, tile baths, comp. shingle roofs, hot air heat; \$40,000; owner builds.

Mo., University City—G. Wortman, 2636 Lynhurst Ave., erect 4 dwellings, 7371-73-79-81 Liberty Ave.; brick, 1 story and basement, 26x40 ft., hardwood floors, tile baths, comp. shingle roofs, hot air heat; \$24,000; owner builds.

Mo., University City, St. Louis—Victor Albrecht, 310 Selma Ave., Webster Groves, erect \$15,000 residence, 7071 Forsythe Blvd.; brick, 2 stories and basement, 32x35 ft., hardwood floors, tile bath and roof, hot water heat; Midland Valley Corp., Contr., 2512 Woodson Rd.

Mo., University City, St. Louis—A. R. Chappell, 5801 Enright Ave., erect \$15,000 brick residence, Stratford Ave. near Hanley Road; 2 stories and basement, 35x40 ft., hardwood floors, tile bath, slate roof, hot water heat; Arthur T. Grindon, Archt., 7372 Sutherland Ave.; Residence Construction Co., Contr., 1256 N. Kingshighway.

Mo., University City, St. Louis—C. A. Perry, 511 Midvale St., erect \$15,000 brick residence, 524 Warren Ave.; 2 stories, 36x21.2 ft., slate roof, gas or oil heat; Nolte & Naumann, Archts., Fullerton Bldg.; owner builds.

N. C., Charlotte—Sherrill Realty Co., 25 W. Fourth St., erect \$15,000 brick veneer dwelling, 632 Berkley Ave.; 2 stories; also \$4000 dwelling, 421 Lombardy Circle; frame, 1 story; owner builds.

Okla., Ada—F. W. Meadows let contract at \$32,811 to Richter & Lail, Pauls Valley, for residence; brick and rein. conc., 2 stories and basement, 54x76 ft., oak and tile floors, oak finish, clay tile and copper roof; A. S. Ross, Archt., Ada. 5-17

S. C., Aiken—Byck Electric Co., 137 Bull St., has elect. contract for \$100,000 residence for Winthrop Rutherford; Scroggs & Ewing, Archts., S. F. C. Bldg., Augusta, Ga.; Peabody, Wilson & Brown, Asso. Archts., 140 E. 30th St., New York; H. B. Nelson Construction Co., Contr., Augusta. 5-17

S. C., Columbia—J. C. Heslep, Contr., 2129 Divine St., erect \$25,000 residence, 204 Saluda Ave.; brick and tile, 10 rooms.

S. C., Greenville—Dr. Geo. R. Wilkins started work on \$25,000 residence, Cleveland Park.

Tex., Clear Lake—Jas. M. West, West Bldg., Houston, started work on \$300,000 residence; rein. conc., hollow tile walls, stone and stucco trim, 2 stories, about 50x200 ft., 45 rooms, conc. foundation, tile roof, various types flooring; Jos. Finger, Archt., Democratic Bldg.; H. M. Sanford, Engr., Esperson Bldg.; Southwestern Construction Co., Contr., 428 West Bldg., all Houston. 8-2

Tex., Corpus Christi—H. G. Sherman, 315 Peoples St., erect \$12,500 residence; stone and stucco, 2 stories, 8 rooms; Wood-Sherman Construction Co., Contr.

Tex., Houston—Geo. D. Journeay erecting residence, 1611 North Boulevard, Edgemont; brick veneer, 2 stories, hardwood floors, red gum trim; Russell Brown Co., Archt.-Contr., 3104 Main St.

Tex., Houston—Russell Brown Co., 3104 Main St., started work on brick veneer dwelling, Montrose and Chelsea Sts., and North St. near Mandell St.; 2 stories and basements, sleeping porches; owner builds.

Tex., San Antonio—W. J. Walhold, 506 Huisache St., erect \$12,500 residence, 112 Ridgewood St.; stucco, 10 rooms; owner builds.

Tex., San Benito—Knox Smith erect \$10,000 residence; hollow tile and stucco, 1½ stories, 8 rooms, conc. foundation, tile floors, comp. and tile roof; F. H. Trimble, Archt., Point Isabel; W. B. Hinkly, Contr.

Government and State

D. C., Washington—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., let contract to H. S. Hutton Construction Co., 100 N St., N. E., at \$46,771 for improving dome of rotunda, natural history building, U. S. National Museum. 5-3

N. C., Franklin—M. D. Billings and Sam L. Franks started work on post office.

Okla., Enid—State Highway Commission, John G. Parker, Jr., member, started work on first unit of warehouse, garage and office building for Enid district.

Okla., Fort Sill, Lawton—Constructing Quartermaster let contract at \$70,500 to Holmboe Co., 426 W. Second St., Oklahoma City, for 7-company officers' quarters. 7-12

Hospitals, Sanitariums, Etc.

Mo., St. Louis—Missouri Baptist Sanitarium, 919 N. Taylor St., let contract to Murch Bros. Construction Co., Rwy. Exch.

Bldg., for 4-story hospital addition, 4514 McMillan Ave.; brick, terra cotta and rein. conc., 138x48 ft., with 43x58-ft. wing; conc. roof, heat from central heating plant, \$250,000; L. Baylor Pendleton, Archt., DeMenil Bldg. 1-19

Tex., Dalhart—Sisters of Holy Family of Nazareth, Chicago, Ill., let contract to B. C. Froman for \$125,000 hospital; wiring, Browne Electric Co., Amarillo; Kerr & Walsh, Archts., Amarillo Bldg., Amarillo. 8-2

Tex., Houston—Emergency Clinic and Hospital, Dr. W. W. Ackers, Pres., started work on first unit of \$35,000 building, 75th St. and Harrisburg Blvd.; rein. conc. and stucco, 2 stories, 21 beds, 90x100 ft., X-ray department; H. A. Salisbury, Archt., Post-Dispatch Bldg.; Benson-Hall Co., Contr., Humble Bldg.

Va., Norfolk—Protestant Hospital, David Pender, Pres., let contract to Johnson Construction Co., Inc., Law Bldg., for 18-room east wing; \$27,000, brick, conc. and steel, fireproof; Peebles & Ferguson, Archts., Law Bldg.; Hospital also erecting addition to nurses' home and laundry and kitchen unit, cost \$34,718; Calrow, Browne & FitzGibbon, Archts., Royster Bldg.; E. E. Weddle & Co., Contrs., Bd. of Trade Bldg. 4-5

Va., Williamsburg—American Laundry Machine Co., 132 W. 27th St., New York, has \$16,000 laundry machinery contract for Eastern State Hospital. 8-2

Hotels and Apartments

Ala., Birmingham—Donald Park let contract for 4-apartment building, Hollywood, to J. W. Mayes; brick veneer, Cypress timber trim, slate and stone work, built-up roof, steam heat, hot circulating water, elect. refrigeration; Denham & Denham, Archts., Comer Bldg.

Fla., Jacksonville—J. W. Henderson, 1019 E. Church St., erect \$10,000 apartment, King St. near Green St.; 2 stories, brick veneer.

Fla., Jacksonville—I. Edelstein Bell erect \$50,000 apartment, Park St. near Acosta St.; brick, 2 stories; owner builds.

Fla., Jacksonville—Gertrude A. Clark erect \$15,000 apartment building, 2886 Post St.; 2 stories, brick veneer; J. T. Foster, Contr.

Ga., Atlanta—W. H. Wynne, 342 Highland Ave., N. E., let contract for apartment, rear of 642 Highland, to Jas. Shepherd, Healey Bldg.; 2 stories and basement, 95x40 ft., 36 rooms, 24 baths, comp. roof, steam heat.

Ga., Atlanta—J. F. Evans, 57 Lafayette Drive, N. E., erect \$35,000 apartment building, 1034 Virginia Ave., N. E.; brick veneer, 2 stories and basement, 117x44 ft., hardwood floors, tar and gravel roof, steam heat; owner builds.

Ga., Augusta—Barringer Hotels, Hotel Richmond, let contract to Claussen-Lawrence Construction Co., 1394 Gwinnett St., to remodel and erect 100-room addition to Hotel Richmond; millwork, Augusta Lumber Co., 903 Eighth St.; elect. wiring, Whitney-McNeill Electric Co., 720 Broad St.; built-up roofing and sheet metal work, Augusta Roofing & Metal Works, 529 Broad St., \$200,000, all Augusta; rein. conc., struct. steel, brick, stone trim, elevators, steam heat; Johnson & Brannan, Archts., Peoples Nat'l Bk. Bldg., Lynchburg, Va. 7-5

Ga., Brunswick—Oglethorpe Hotel, Jack Gardner, Mgr., remodeling building; \$40,000; install 61 shower baths, etc.

Ky., Ashland—J. W. Henderson, Bridge Haven, let contract to Johnson & Johnson for \$25,000 rough face brick apartments, 34th and Winchester Aves.; work to second floor; 2 stories and basement, 40x52 ft., oak floors, asbestos shingle roof, Murphy beds; H. N. Foster, Archt. See Want Section—Building Material and Equipment. 8-2

La., Monroe—N. Kalil & Son, 439 DeSard St., let contract at \$210,950 to J. H. Reddick, Kennedy Bldg., Fort Smith, Ark., for Hotel Kalil; plumbing and heating, W. J. Riley Co.; fireproof, rein. conc., steel, brick, stone trim, 7 stories, 140x120 ft., 108 rooms with private baths; steam heat; J. W. Smith & Associates, Archts., Ouachita Bank Bldg., Monroe. 7-26

La., Shreveport—Latex Investment Co., N. Texas Bldg., Dallas, Tex., erect \$18,700 apartment bldg., 402-10 Forest St.; brick veneer, 2 stories; J. B. White, Contr.

Miss., Clarksdale—Mrs. M. H. Lawless, New Orleans, La., let contract to J. T. Blackmon, Clarksdale, to remodel and enlarge 3-story bldg. for hotel; \$50,000; brick; Mason & Spori, Archts., Vincent Bldg., New Orleans. 6-7

Mo., Kirkwood, Ind. Br. of St. Louis—Earl Dean Realty and Mortgage Co., 126 E. Bodley Ave., erect \$20,000 apartment, Monroe Ave.; brick, 68x50 ft., 2 stories and base-

ment; Gerard Wolf, Archt., 6635 Delmar Blvd.; owner builds.

Mo., Kirkwood, Ind. Br. of St. Louis—Joseph Solari, 25 S. Moreland St., erect \$18,000 apartment, Argonne Drive; brick, 50 x80 ft., 2 stories and basement, comp. roof, hardwood floors; Gerard W. Wolfe, Archt., 6635 Delmar Blvd.; owner builds.

Mo., St. Louis—W. H. Schulte, 2806 N. Grand Ave., erect \$15,000 tenement, 4300 Maffitt St.; brick, 2 stories, 142x32 ft., comp. roof, stoves; Ernest J. Hess, Archt., Title Guar. Bldg.; owner bldg.

Mo., St. Louis—H. Kahlkhake, 4900 Loughborough Ave., erect \$12,000 apartment; brick, 2 stories and basement, 24x46 ft., tile roof, hardwood floors; Clarence E. Stevens, Archt., Moellenhoff Building & Realty Co., Contr., both 5417 S. Grand Blvd.

Mo., St. Louis—P. Luepker, 9377 Dover St., erect \$10,000 tenement, 3848-50 Meramec St.; brick, 2 stories, 20x47 ft., gravel and comp. roof, hot air heat; A. Degenhardt, Contr., 6128 S. Grand Ave.

Mo., St. Louis—J. Murphy, 5081 N. Kingshighway, erect \$10,000 tenement, 5914-16 Arendle St.; brick, 2 stories, 36x45 ft., tile roof, hot air heat; O. Brohammer, Archt.-Contr., 3185A Portio St.

Mo., St. Louis—S. Trattner, 5840 Terry Ave., erect \$10,000 apartment, 5831 Maffitt Ave.; brick, 2 stories and basement, 28x40 ft.; comp. shingle roof; Ben Shapiro, Archt., 4202 Holly Ave.; Alvin Construction Co., Contr., 5832 Terry Ave.

Mo., St. Louis—Jas. Keithly, 4972 Columbia Ave., erect \$12,000 apartment; brick, 2 stories and basement, 28x45 ft., asphalt shingle roof, stone trim, hardwood floors; O. J. Popp, Archt., 1528 Arcade Bldg.; owner builds.

Mo., St. Louis—S. Michalak, 5009 Davison Ave., erect \$10,000 apartment, 5007 Davison Ave.; bricks, 24x45 ft., 2 stories and basement, tar and gravel roof; Guarantee Construction Co., Contr., 700 Wainwright Bldg.

Mo., St. Louis—F. A. Scherper, 5330 Loughborough St., erect \$18,000 apartment, 3932 Filmore Ave.; brick, 2 stories and basement, 34x47 ft.; owner builds.

Mo., St. Louis—John H. Flachmeier, 1706 State St., erect \$16,000 apartment, 1709 State St.; brick, 49x34 ft., 2 stories and basement, comp. roof, hardwood floors; Jesse F. Gedney Co., 1461 Hall St.

N. C., Charlotte—Charlotte Apartment House Corp., Wesley T. Heath, Pres., erect apartment building, Queens Road near Luther St.; Wesley T. Heath Co., Contr., 310 N. Church St.; Tudor design, sandstone, 10 stories, 60x87 ft., steel casements, marble floor and wainscoting in lobby, Caen stone walls and ceilings, resilient floors in kitchen and bed units, 2 passenger and 1 freight elevator; 75 suites of 1, 5 and 3 rooms; mechanical refrigeration; designed for combination hotel and apartment use; work to start Sept. 1; M. R. Marsh, Archt., Bldrs. Bldg. 7-19

Okla., Altus—Ward Fisher Co., Oklahoma City, has contract for \$30,000 Weston Hotel addition; brick, tile, 2 stories; Harry Reynolds, Archt., Magnolia Bldg., Oklahoma City.

Tenn., Memphis—J. E. Jones erect \$10,000 apartment, 2367 Forrest St.; 4 suites; D. J. Tyler, Contr.

Tex., Beaumont—Dixie Heating and Ventilating Co., 109 Fannin St., Houston, has heating, ventilating, air conditioning, plumbing and water refrigeration contract for \$1,000,000 Edison Hotel; F. W. Steinman & Sons, Archts., 411 San Jacinto Life Bldg., Beaumont; Hedrick & Gottlieb, Asso. Archts., Post-Dispatch Bldg., Houston; Christy-Dolph Construction Co., Contr., Constr. Indus. Bldg., Dallas. 8-2

Tex., Houston—Geo. J. Robischung, 1609 Congress Ave., has plumbing contract for \$150,000 alterations to Warwick Apt. Hotel; elect. work, Jacob Bros. Electric Co., 1040 Prairie Ave.; Jas. Ruskin Bailey, Archt., Public Nat'l Bank Bldg.; Don Hall, Contr., Cotton Exch. Bldg. 7-19

Tex., Port Arthur—Vaughn Hotel Corp. let contract to McDaniel Bros., P. O. Box 826, Beaumont, for \$500,000 Vaughn Hotel; 10 stories, brick, hollow tile and rein. conc., stone trim; 2 stories about 140x75 ft., 8 stories 89x48 ft.; wood, tile, cement and terrazzo floors, metal lath, marble, metal windows, fire escapes; upstairs storage for 200 automobiles; Jos. Finger, Archt., Keystone Bldg., Houston; Livesay & Wiedemann, Asso. Archts., San Jacinto Life Bldg., Beaumont.

Va., Newport News—Virginia Engineering Co., First Nat'l Bk. Bldg., has contract for

\$100,000 apartment bldg., 30th St. and the Casino; 4 stories, 28 suites, electric refrigerators; work started.

Miscellaneous

Ark., Jonesboro—Convent Maria Stein, St. Bernards Hospital, let contract at \$107,920 to Stehle Construction Co., Memphis, Tenn., for \$150,000 fireproof convent; 4 stories, 153x50 ft., hardwood and terrazzo floors, tar and gravel roof; Henry J. Kramer, Archt.-Engr., Goodwyn Inst. Bldg., Memphis. 7-26

Md., Salisbury—Salisbury Home for Aged, Wm. S. Gordy, Jr., Treas. of Bd., erecting \$85,000 fireproof building, Main St.; brick, 3 stories, 30x100 ft., concrete finish Duroflex floors, slate roof; Hopkins & Burton, Archts., 347 N. Charles St.; Cogswell-Koether Co., Contr., 406 Park Ave., both Baltimore. See Want Section—Building Material and Equipment. 8-2

Mo., St. Louis—College Club of St. Louis, 5428 Delmar Blvd., erecting \$13,000 addition; brick, joist floors, 2 stories, 25,700 cu. ft., hardwood, tile and linoleum floors, comp. and slate roof; furnishings, equipment, etc., \$1500; F. Ray Leimkuehler, Archt.; A. H. Vogel, Heating Engr., both Chem. Bldg.; Chas. W. Schuler & Co., Contrs., 2838 Texas Ave. 8-2

N. C., Winston-Salem—Bill and Nick Pappas, 401 Washington Ave., started work on brick restaurant, Reynolda Rd. near Northwest Blvd.; 20x60 ft.; Realty Bond Co., Contr., 16 W. Third St.

Tex., New Braunfels—O. A. Doeppenschmidt, 400 W. Seguin St., remodel funeral home; Jeremiah Schmidt, Archt.; A. C. Moeller Co., gen. contract at \$11,444.

Railway Stations, Sheds, Etc.

Mo., St. Louis—Wabash Railway Co., R. H. Howard, Ch. Engr., Rwy. Exch. Bldg., let contract to Dwight P. Robinson & Co. Inc., 125 E. 46th St., New York, for \$350,000 suburban passenger station, Delmar Blvd. and Hodiament St.; Bedford limestone, 1 story, Roman type, rein. conc. and steel, red Spanish tile roof; R. E. Mohr, Archt., care Owner. 2-23

Mo., St. Louis—Mississippi Valley Structural Steel Co., 3117 Big Bend Road, reported, has contract for 825 tons struct. steel for \$800,000 American Railway Express Bldg. for Terminal Railroad Assn.; Dwight P. Robinson & Co., Engrs.-Constr. Supvrs., 125 E. 46th St., New York; constr. in charge of H. F. Pfeiffer, Ch. Engr. for Owner. 7-26

Schools

Ala., Montgomery—County Bd. of Education, W. R. Harrison, Supt., let contract at \$740,000 to Algernon Blair, 11 S. Lawrence St., for Sidney Lanier High School; Collegiate Gothic type, fireproof, 3 stories, 2-story gymnasium; school 466 ft. front, auditorium seat 1850; latter 132 ft. front; Fredk. Ausfeld, Archt., Shepherd Bldg. 7-26

Ala., University—University of Alabama let contract for \$250,000 Education Bldg. to Skinner-Maxwell Building Co.; wiring, Barnes Electric Co., both Tuscaloosa, Ala.; plumbing and heating, Poe Piping & Heating Co., 108 S. Main St., Greenville, S. C.; structure fireproof, brick, steel and rein. conc., Alabama limestone trim, Georgian type, 3 stories and basement, about 60x200 ft., linoleum, marble, maple and rubber floors, blackboards, built-up roof, steam heat; Warren, Knight & Davis, Archts., Empire Bldg., Birmingham. 8-2

Ala., Ozark—Dale County Bd. of Education let contract to J. S. Hudson for 6-room and auditorium frame school at Echo. 7-12

Ark., Arkadelphia—Henderson-Brown College, Dr. Jas. M. Workman, Pres., let contract for \$100,000 boys' dormitory to replace burned structure to Nathan O'Neal, Hope, Ark.; John P. Almand, Archt., Boyle Bldg., Little Rock. 8-2

Fla., Bartow—Tax Dist. No. 7 let contract to Paul H. Smith, Haines City, for \$78,000 elementary school; east stone, conc. floors and roof, pan constr., 2 stories, 54x124 ft., mastic floors, conc. foundation, built-up roof; furnishings, equipment, etc., \$7000; E. R. James, Archt., Bartow. See Want Section—Building Material and Equipment. 8-2

Md., Walkersville—Frederick County Bd. of Education, G. Lloyd Palmer, Sec., let contract to Lloyd C. Culler for \$10,000 auditorium, high school.

Mo., Brookfield—Bd. of Education let contract to Busboom Bros., Carthage, at \$122,500 for high school and at \$17,500 for additions to Adams Grade School; plumbing and heating for both, Judd Plumbing, Heating and Supply Co., 513 E. 13th St., \$27,544; former rein. conc., brick, stone, 2 stories

and basement, 100x185 ft.; H. P. Pempels, Archt., 701 Finance Bldg., Kansas City. 6-7

N. C., Ahsokle—Ahsokle School Bd. started work on \$75,000 school; brick and frame, 2 stories, 150x200 ft., No. 1 common oak floors, conc. foundation, built-up roof; L. N. Boney, Archt., Murchison Bldg., Wilmington; C. B. Mooney, Contr., Mocksville. See Want Section—Building Material and Equipment. 8-2

N. C., Statesville—School Bd. let contract to Cline & Marlowe, Hickory, for \$75,000 brick and stone trim school, South Statesville; 12 rooms; auditorium-gymnasium seat 450. 7-26

Okla., Keystone—W. E. Corlett, Vinita, has contract at \$17,300 for school addition; brick, stone, conc. asphalt roof; A. J. Love & Co., Archts., 204½ E. Third St., Tulsa. 7-26

Okla., Maud—A. F. Stewart Construction Co., Petroleum Bldg., Oklahoma City, has contract at \$61,000 for high school; Guy C. Reid, Archt., Elks Bldg., Oklahoma City. 7-26

S. C., Greenville—Greenville County Bd. of Education let contract at about \$50,000 to Gallivan Building Co., Gallivan Bldg., for 2 grammar schools; brick, wood floors, comp. roofs; plans by J. E. Sirrine & Co., Engrs. 7-26

S. C., Marietta—Greenville County Bd. of Education, Robt. L. Meares, Jr., Supt., let contract for \$15,000 school to Justice & Jones, Flat Rock, N. C.; auditorium, 8 classrooms, 2 stories, brick; plans by J. E. Sirrine & Co., Engrs., Greenville. 7-5

Tex., Alvin—Alvin Ind. School Dist. Trustees let contract at \$51,000 to Witt & Fleming, Kirby Bldg., Houston, for high school and alterations and repairs to present building; 2 stories, brick, tile and stone; Lamar Q. Cato, Archt.; Robt. J. Cummins, Engr., Bankers Mortgage Bldg., both Houston. 7-26

Tex., Beaumont—Orange Car and Steel Co., Orange, has 220-ton steel contract for \$200,000 Dick Dowling and David Crockett Junior High School; Livesay & Wiedemann, Archts., San Jacinto Life Bldg. 7-26

Theaters

Okla., Oklahoma City—G. A. Nichols has permit for \$100,000 theater, 1008 E. 13th St. 7-26

Tex., Dallas—Publix Theater Corp., 16 E. 42nd St., New York, let contract to Childs-Lasell Construction Co., Lansing Bldg., Dallas, to remodel theater; \$200,000; elect. work, Busby Electric Co., Dallas; stage equipment, switchboards, lights, etc., Peter Clark Co., 544 W. 30th St., New York; B. B. Buchanan, constr. engr. for owner. 5-17

Tex., San Antonio—Interstate Amusement Co., Karl Hobbitzelle, Pres., let general contract for \$2,000,000 Majestic Theater and office building, E. Houston St., to American Construction Co., Gulf Bldg., Houston; brick, struct. steel frame, rein. conc., terra cotta, cast stone, marble, tile; 15 stories 45x167 ft.; 7 stories about 135x168 ft.; stores and offices in front; restaurant in basement; plumbing, gas fitting, sprinkler system, air cooling and ventilation system, steam heating and wiring in general contract; John Ebersson, Archt., 212 E. Superior St., Chicago, Ill., and 200 W. 57th St., New York; excavation, foundation and retaining walls lately noted let to Walsh & Burney, Inc., 928 N. Flores St., San Antonio. 7-12

Warehouses

Mo., St. Louis—Central Holding Co., 811 N. Sixth St., erect \$40,000 salesroom and warehouse, 1634 S. Kingshighway; brick, 1 story, 198x88 ft., comp. roof; S. Abrahams & Son Construction Co., Archt.-Contr., Chemical Bldg. 7-26

Tex., Houston—J. Swift, 4127 N. St., Galveston, and Ben Lewis, 1105 Congress Ave., Houston, erecting \$17,000 warehouse, 312 Dowling St.; 75x130 ft., rein. conc. foundation, hollow tile and face brick; L. C. Perry, Contr. 7-26

Tex., Houston—Alexander Sprunt & Son, Cotton Exch. Bldg., extend warehouse, Ship Channel; rein. conc. and brick, mill constr. roof, 175x250 ft.; Robt. J. Cummins, Const. Engr., Bankers Mortgage Bldg.; Southwestern Construction Co., West Bldg., gen. contract at \$103,800. 8-2

Tex., Corpus Christi—J. C. Dyer has plumbing contract at \$32,000 for \$250,000 high school for Corpus Christi Ind. School Dist.; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi; Homer M. Matthews, Struct. Engr., Bedell Bldg., San Antonio; Daugherty-Nichols-Young Construction Co., Contr., Nixon Bldg. 8-2

Tex., Combes, Harlingen—Harlingen Ind. School Bd., R. B. Hamilton, Sec., let contract at \$15,400 to E. H. Buck, Harlingen, for brick and rein. conc. school; 1 story, pine floors, rein. conc. foundation, comp. roof; Page Bros., Archts., Austin Natl. Bank Bldg., Austin. 7-26

Tex., Dallas—Evangelical Theological College, Dr. L. S. Chapen, Pres., completed foundation for \$85,000 dormitory rein. conc., 4 stories, 103x40 ft., terrazzo floors, tile roof; C. H. Griesenbeck, Archt., Constr. Indus. Bldg.; Lee R. Doughty, Contr., 320 E. Ninth St. See Want Section—Building Material and Equipment. 8-2

Tex., Kosse—Kosse School Bd. let contract at \$17,000 to Rabe Wilson, 1008 Franklin St., Waco, for school addition; masonry, 2 stories, 3 rooms, comp. roof; H. F. Kuehne, Archt., Littlefield Bldg., Austin; work started. See Want Section—Building Material and Equipment. 7-19

Tex., Long Mott—School Bd., W. D. Stevens, Sec., let contract at \$15,310 to Newman Bros., Kenedy, for 1-story school; brick, 44.6x136 ft., pine floors, steel ceiling, rein. conc. foundation, Barrett 20-year tar and gravel roof; Kai J. Leffland, Archt., Victoria. 7-26

Tex., Port Arthur—Port Arthur Ind. School Dist., Sec.-Pur. Agt., let contract to Central Contracting Co., Athletic Bldg., for \$550,000 Thomas Jefferson Junior High School, Lambert Addition; plumbing, Harry Kahn, 517 S. Ervay St.; heating and ventilating, Kinnison Bros., 1201 S. Lamar St., all Dallas; elect. work, Alan T. Cooke & Co., Esperson Bldg., Houston; fireproof, 2 stories, brick, conc. frame, terra cotta trim, Spanish tile roof; auditorium, 2 gymnasiums, cafeteria, etc.; Mark Lemmon, Archt., Constr. Indus. Bldg., Dallas. 7-12

Va., East Radford—State Teachers' College, Dr. John P. McConnell, Pres., let contract to T. G. Moore, Christiansburg, for Student Activities Bldg.; Frve & Stone, Archts., MacBain Bldg., Roanoke. 7-26

Va., Martinsville (Ridgeway, Dry Bridge and Bassetts)—Henry County School Bd. let contract at \$29,200 to McCoy & Huskey, Martinsville, for 1-story high school, Ridgeway; 10 rooms; contract at \$6395 to Moore Lumber Co., Leaksville, N. C., for 4-room school, Dry Bridge; J. D. Bassett, Jr., erect \$4500 4-room school, North Bassetts. 6-28

Stores

Ark., Arkadelphia—Graves Hardware Co. let contract to C. D. Gregory for \$50,000 building to replace burned structure, 914 Sixth St.; brick, 50x90 ft. 7-19

Ala., Birmingham—Estes Real Estate and Insurance Co., 314 Woodward Bldg., developing Eastwood Park, erect English type shopping center; dwellings under way; Brice-Estes Building Co., Contr., 1717 Somerset Circle. 7-26

Ala., Montgomery—Hugger Bros. Construction Co., Shepherd Bldg., erecting \$50,000 store, 116-18 Commerce St., to be occupied by Montgomery Ward & Co.; brick, 2 stories and basement, tar and gravel roof. 7-26

Ala., Opelika—L. F. Dixon let contract to Daniell Lumber Co., LaGrange, Ga., to remodel store; R. Kennon Perry, Archt., Wynne-Claughton Bldg., Atlanta, Ga. 7-26

Fla., Jacksonville—Lizzie Joseph erect \$14,000 store and apartment building, 1253-55 Market St.; brick, 2 stories; H. L. Smith, Contr. 7-26

Fla., Jacksonville—Mrs. Sarah Elian erect \$25,000 building, Main and 19th Sts.; brick and steel, 2 stories; 3 stores on first floor; two 7-room apartments on second; Carlos B. Schoeppl, Archt., Consolidated Bldg.; Farris Construction Co., Contr. 7-26

Fla., West Palm Beach—McCrary Stores Corp., 1107 Broadway, New York, tentatively let contract to Chalker & Lund, Inc., Harvey Bldg., Palm Beach, for store, Clematis St., and remodeling adjoining structure; plans by owner. 6-21

Fla., West Palm Beach—McCrary Stores Corp., 1107 Broadway, New York, let contract to Chalker & Lund, Inc., Harvey Bldg., Palm Beach, for \$80,000 store, Clematis St., and remodeling adjoining structure; 2 stories, 50x100 ft. 7-26

Ga., Atlanta—John Grant, Grant Bldg., remodel building, 110-14 Pryor St., S. W.; tar and gravel roof, \$12,000; W. H. George, Contr., Bona Allen Bldg. 7-26

La., New Orleans—Mrs. Matthews W. Cook erect building, Longue and Memphis Sts.; Philip Schneller, Contr., 4141 Orleans St. 7-26

La., Shreveport—J. M. Robinson, Bayou La Chute, let contract at \$11,800 to Sutton & Leverett for rein. conc. and brick building, Greenwood Road and Exposition Ave.; 1 story, 60x84 ft.; E. A. George, Archt., Giddens-Lane Bldg. 8-2

1 story, 60x84 ft.; E. A. George, Archt., Giddens-Lane Bldg. 8-2

Md., Baltimore—S. S. Kresge Co., Detroit, Mich., alter basement, first and second floors of bldg., 907-09 W. Baltimore St.; plans by Harold Holmes, Company Archt.; Turnbull & Cornell, Contrs., 15 S. 21st St., Philadelphia, Pa. 7-26

Mo., St. Louis—L. Silver, 915 N. Sarah St., erect 2-story stores and tenement, 100-12 N. Sarah; brick, 80x22 ft. and 47x41 ft., conc. roof; \$18,000; B. Shapiro, Archt., 4202 Holly St.; Magidson Construction Co., Contr., 1401 Wooland Drive. 7-26

Mo., St. Louis—J. C. Penney Co., Inc., 330 W. 34th St., New York, erect \$10,000 building; brick, 2 stories and basement, 34x47 ft., comp. shingle roof, hardwood floors; H. Kissel's Sons, Archts., Contr., 4107 Florissant Ave. 7-26

N. C., Winston-Salem—J. Marion Dull, 919 E. 12th St., completed excavation for \$25,000 bldg., 1100 Eleventh St.; 2 and 3 stories, 40x100 ft., rift pine floors, cement foundation, built-up roof, steam heat; address proposals on furnishings, equipment, etc., \$5000, to Landingham Bros., Oak St.; 4 stores, entertainment hall and 3 apartments of 4 and 5 rooms; L. J. Burge, Archt., Liberty St.; H. B. Sams, Contr., E. 11½ St. 7-26

Tex., Amarillo—J. T. Taylor, First Nat'l Bldg., Port Worth, has contract to remodel Woolworth Bldg.; mezzanine, kitchen, lunchroom; \$12,500. 7-26

Tex., Del Rio—Max Stool erect brick and conc. addition to store; 1 story and basement; fixtures; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg., San Antonio; contract let. 7-26

Tex., San Antonio—Mrs. C. L. Stephens, care J. Clyde & Percy W. Williams, Archts., Moore Bldg., remodel bldg.; brick, plate glass front; J. C. Curtis, Contr., 101 Drexel Ave. 7-26

Tex., San Antonio—Geo. Oge erecting \$100,000 store and hotel, 224-28 Houston St.; work 50 per cent complete; 2 stories and basement, 76x120 ft., tile and cement floors, gravel roof; 30 hotel rooms; W. N. Hagy, Archt.-Engr., both 312 Navarro St.; address equipment proposals to Mrs. Jackson, 224 E. Houston. See Want Section—Building Material and Equipment. 7-26

Book Review

Insurance. By S. B. Ackerman, A. M., LL.B. New York: The Ronald Press Company. Cloth. Pp. 609. \$5.

As written by S. B. Ackerman, a member of the New York Bar specializing in insurance, assistant professor of insurance, New York University, and formerly assistant actuary of the New York State Insurance Department and New York State Industrial Commission, "Insurance" is a practical guide to all forms of insurance coverage, prepared for use of financial executives purchasing insurance protection for a business. It embraces life, fire, marine and all the casualty lines, including credit insurance, fidelity and surety bonds, land value insurance, etc. It is designed to help such executives to determine what to insure, what coverage is proper and adequate, what type of policy is best, and what kind of company can best give the service required. From it, also, the financial executive can learn his company's rights and liabilities under the policy contract for each type of coverage, the insurance company's rights and liabilities, what liabilities of the insurance company are excluded from the contract, valuable technical information concerning endorsements or riders added to policies to cover special cases, practical points regarding the information called for in the application for insurance, and information of the greatest importance concerning the valuation and adjustment of claims for loss. In short, "Insurance" is intended to give the financial executive the full, practical information he needs in order to determine what lines of insurance coverage his corporation requires and how they should be arranged for.

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Boilers.—J. Howard Martin, V-Pres., American Die and Forging Co., P. O. Box No. 9, Swissvale, Pittsburgh, Pa.—Wants prices and data on 2 water tube or 2 horizontal tubular boilers, water tube preferred; 200 or 250 h. p. each, good for working pressure of not less than from 150 lbs. up; boilers in first-class condition that will conform to Pennsylvania code.

Chemical Plant Equipment.—Oxmore Chemical Co., Fred C. Otto, Pres., 3828 Ave. A, Birmingham, Ala.—Wants prices on all kinds of chemical equipment, especially to process hydrocarbon oils, tars, asphalt, greases, paints, powders, roofing and soaps; will soon be in market for kettles, mixers, agitators, coolers and packing machines, etc.

Clayworking Machinery.—Flagler Clay Holding Co., H. E. Black, Daytona Beach, Fla.—Wants data and prices on machinery for manufacturing common and face brick, drainage tile and pottery.

Contractor's Equipment.—Home Builders Supply Co., 1630 Market St., Wheeling, W. Va.—Wants all kinds of equipment for construction work and erection of dwellings particularly; used equipment preferred.

Dump Cars.—Owl Creek Phosphate Co., Carbur, Fla.—Wants 200 V-type side dump cars, 2-yd. capacity, 36-in. gauge, heavy construction for shovel loading.

Freight Elevator.—Home Builders Supply Co., 1530 Market St., Wheeling, W. Va.—Wants second-hand freight elevator with 20 ft. lift, to be used in building material storage building; at least 6x6 ft. platform.

Gasoline Locomotives.—Owl Creek Phosphate Co., Carbur, Fla.—Wants 6 to 8-ton gasoline locomotives, 36-in. gauge.

Grinding Machine.—American Insulating Materials Co., 120 N. Market St., St. Louis, Mo.—Wants grinding machine for grinding mica in water.

Hoisting Equipment.—Oxmore Chemical Co., Fred C. Otto, Pres., 3828 Ave. A, Birmingham, Ala.—Wants bids on barrel hoisting equipment for chemical plant.

Locomotive Boiler Tubes.—D. Blumann, 1/1 Postgasse 6, Vienna, Austria.—Wants to represent manufacturers of boiler tubes for locomotives.

Press.—American Insulating Materials Co., 120 N. Market St., St. Louis, Mo.—Wants press for pressing water out of plaster which has been ground in water.

Road Building Machinery.—Georg Groth Hansen, Direction Postal, Casilla 227, Direction Telegrafica, "Grothansen," Magallanes, Chile.—Wants prices and data on road building machinery.

Textile Mill Machinery.—T. E. Carpenter, Weslaco, Tex.—Wants prices and data on building and machinery for small cotton mill to manufacture one or more of the standard weaves.

Water Softener.—Blount Sanitary Laundry, Maryville, Tenn.—Wants water softener.

V. T. Hirst, Leesburg, Va.—Wants prices on following for woodworking plant:

- (1) Cut Off Saw
- (2) Jointer
- (3) Moulder
- (4) Mortiser
- (5) Rip Saw
- (6) Sander
- (7) Surfacers
- (8) Tenon Machine.

Miscellaneous

Jacks (Automobile).—Mechanical Painting Machine Co., Inc., Smithfield, N. C.—Wants automobile or small size air jacks in large quantities.

Metal Signs (Raised Letter).—Richard F. Belren, Pres., Covington Virginia, Inc., Covington, Va.—Wants prices and data on metal signs with raised letters.

Playground Equipment.—R. P. Johnson (Mech. Dealer), First Natl. Bk. Bldg.,

Wytheville, Va.—Wants data and prices on school play ground equipment.

School Pennants.—M. L. Tiller of Old Dominion Belt Co., P. O. Box 2033, Richmond, Va.—Wants prices and data on college and school pennants.

R. A. Kratochwill, Box 61, Greeneville, Tenn.—Has patent on combination cigarette and match box and wants prices and data on manufacture; may be made of light steel.

Oxmore Chemical Co., Fred C. Otto, Pres., 3828 Ave. A, Birmingham, Ala.—Wants prices on following for chemical plant:

- (1) Aluminum Stearate
- (2) Animal Oils
- (3) Gilsomite
- (4) Industrial Chemicals
- (5) Paints—for industrial purposes
- (6) Potassium Hydroxide
- (7) Rosin Oil
- (8) Sodium Oleate
- (9) Vegetable Oils
- (10) Wool Waste—for car packing.

Building Material and Equipment

H. F. Kuehne, Archt., Austin, Tex., wants price on built-up flat roofing for \$17,000 school addition, Kosse, Tex.

Jas. B. Urquhart, Archt., Palmetto Bldg., Columbia, S. C., wants prices on following for \$50,000 high school, Springfield, S. C.:

Flooring—hardwood
Limestone
Plaster Board
Roofing—built-up
Steel Sash.

Regan & Weller, Archts., 226 Dermon Bldg., Memphis, Tenn., want prices on following for \$250,000 high school, Nashville, Tenn.:

Flooring—hardwood, terrazzo, tile, composition
Limestone
Marble
Metal Doors
Roofing—built-up
Tile—hollow
Terra Cotta Trim
Vaults
Ventilators
Wire Glass
Brass and Bronze Work.

Hopkins & Burton, Archts., 347 N. Charles St., Baltimore, Md., want prices on following for \$85,000 home, Salisbury, Md.:

Flooring—tile, composition
Marble
Roofing—slate
Tile—hollow.

J. W. Henderson, Bridge Haven, Ashland, Ky., wants prices on following for \$25,000 apartments:

Electric Refrigerators
Flooring—hardwood, tile
Incinerator
Roofing (hip)—asbestos shingle
Steel Sash and Trim
Tile—hollow.

Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans, La., wants prices on following for hospital, Monroe, La.:

Cast Stone
Dumb Walters
Flooring—tile, composition
Limestone
Marble
Metal Doors
Roofing (hip)—asbestos shingle, tile
Tile—gypsum, hollow
Ventilators
Wire Glass.

Kiehnel & Elliott, Archts., Seybold Bldg., Miami, Fla., want prices on following for \$35,000 dwelling, Daytona Beach, Fla.:

Cast Stone
Electric Refrigerators
Flooring—hardwood, terrazzo, tile
Roofing—tile
Tile—interior.

Hugo F. Kuehne, Archt., 824 Littlefield Bldg., Austin, Tex., wants prices on following for \$32,000 church, Pflugerville, Tex.:

Cast Stone
Limestone
Roofing—asphalt shingle.

E. R. James, Archt., Bartow, Fla., wants prices on comp. flooring for \$78,000 school.

W. N. Hagy, 312 Navarro St., San Antonio, Tex., wants prices on following for \$100,000 store and hotel building:

Cast Stone
Dumb Walters
Elevators
Incinerator
Metal Ceilings
Metal Doors
Plaster Board
Roofing (flat)—built-up
Steel Sash and Trim
Tile
Ventilators.

C. B. Mooney, Contr., Mocksville, N. C., wants prices on hardwood flooring for \$75,000 school, Ahsokle, N. C.

Chas. C. Wilson, Archt., Palmetto Bldg., Columbia, S. C., want prices on following for \$40,000 apartment:

Electric Refrigerators
Incinerator
Roofing—tile
Steel Sash and Trim
Tile—hollow.

F. B. Merry, Contr., 621 Vermont St., Sarasota, Fla., wants prices on following for \$27,500 school, Englewood, Fla.:

Roofing—built-up, slate
Wire Glass.

G. A. Grossman, 1105 Sigler St., Nashville, Tenn.—Wants prices and data on portable disposal device or incinerator for small residences.

Eugene F. Johnson, Archt., 300 McDaniel Bldg., Springfield, wants following for \$60,000 building:

Elevators
Flooring—wood blocks
Sprinklers
Steel Sash and Trim
Terra Cotta Trim
Wire Glass.

Jas. C. Hemphill, Archt., Greenwood, S. C., wants prices on following for golf clubhouse:

Flooring—hardwood, tile
Marble
Roofing—asphalt shingle.

Lee R. Doughty, Contr., 320 E. Ninth St., Dallas, Tex., wants prices on following for \$85,000 dormitory:

Flooring—terrazzo
Folding Beds—50, Murphy or equal
Roofing (Flat)—tile.

Bids Asked

Bolts.—Pur. Agt., P. O. Dept., Washington, D. C.—Bids Aug. 13 for 30,000 carriage bolts and 19,000 step bolts.

Bridges.—State of South Carolina—Bids for 3 bridges. See Construction News—Roads, Streets, Paving.

Bridges.—Prince George, Va.—Bids for bridges. See Construction News—Roads, Streets, Paving.

Bridge.—State of Kentucky. See Construction News—Roads, Streets, Paving.

Cast Iron Pipe and Fittings.—Bd. of Awards, Baltimore, Md.—Bids Aug. 15 for furnishing and delivering cast iron pipe and fittings to Bureau of Water Supply; specifications from office of Water Engr., Room 501 Municipal Bldg.

Coal Crushing System.—Bd. of Awards, Baltimore, Md.—Bids Aug. 15 furnishing and installing coal crushing equipment, Baltimore City Hospitals; work consists of installing single-roll coal crusher with electric motor drive, steel cross conveyor, sliding gates, etc.; plans from office of Bureau of Mechanical-Electrical Service, Room 319 Municipal Office Bldg.

Crematory, etc.—Director of Purchase and Sales, Dept. of Agriculture, Washington, D. C.—Bids Aug. 17 for Bellsville, Md., crematory; Aug. 10 for roof and sheet metal work; Aug. 14 for chimney and tile work.

Dredging.—Dist. Engr., U. S. Engr. Office, Poland and Dauphine Sts., New Orleans, La.—Bids Sept. 3 for dredging 364,000 cu. yds.

of material from Little Caillou Bayou, La.; work consists of enlarging Little Caillou Bayou from its source at Bayou Terrobonne to Robinson Canal, distance of about 20 miles, to depth of 5 ft. below mean low Gulf level, with bottom width of 40 ft.

Dredging.—U. S. Engr. Office, W. A. Snow, Dist. Engr., Wilmington, N. C.—Bids Sept. 4 for dredging in Shallotte River, N. C.; information on application.

Dredging.—War Dept., U. S. Engr. Office, Galveston, Tex.—Bids Aug. 27 for dredging approximately 1,300,000 cu. yds. of materials in 12,000 ft. of channel from Galveston Harbor to Texas City, to depth of 30 ft. below mean low tide and width of 300 ft. on bottom.

Elevator.—Dept. of Interior, Washington, D. C.—Bids Sept. 5 for installing electric freight elevator at St. Elizabeths Hospital, Washington, D. C.

Engines (Diesel).—Town of Tarboro, N. C.—Bids Aug. 17 for 2 Diesel or oil engines for electric light plant, 800 to 900 h.p., and 532 to 600 kw. capacity each; J. H. Jacobs, Town Clk.

Fire Escapes.—Bd. of Awards, Baltimore, Md.—Bids Aug. 15 for furnishing and erecting fire escapes at school No. 209 for Dept. of Education.

Lumber and Paint.—Contracting Officer, Q. M. Corps, Fort Bragg, N. C.—Bids Aug. 13 for 8000 ft. b.m. lumber and 2000 gals. paint.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, Gen. Pur. Agt., Washington, D. C.—Bids Aug. 27 for following: Sch. 1895:

Locomotive cranes, gasoline motor cars, sheet steel, cold-rolled steel, tool steel, roofing nails, brass rods, machine bolts, rivets, copper pipe, brushes, twine, etc.

Paving, etc.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Paving.—Annapolis, Md. See Construction News—Roads, Streets, Paving.

Paving.—New Orleans, La. See Construction News—Roads, Streets, Paving.

Paving.—Mangum, Okla. See Construction News—Roads, Streets, Paving.

Paving, etc.—Magnolia, Ark. See Construction News—Roads, Streets, Paving.

Paving.—Edinburg, Tex. See Construction News—Roads, Streets, Paving.

Pipe (Sewer).—See Sewers.

Power Plant.—Orlando Utilities Comsn., Orlando, Fla.—Bids Aug. 13 for addition to power plant.

Road.—Pascagoula, Miss. See Construction News—Roads, Streets, Paving.

Road.—Annapolis, Md. See Construction News—Roads, Streets, Paving.

Road.—Prince George, Va. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Columbus, Miss. See Construction News—Roads, Streets, Paving.

Road.—Fairmont, W. Va. See Construction News—Roads, Streets, Paving.

Roads.—State of Kentucky—Bids for 12 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Kentucky. Bids for 5 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of South Carolina—Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Roads.—Jasper, Ala.—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland—Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Roads.—U. S. Engineer Office, Jacksonville, Fla.—Bids Aug. 29 to complete 5700 sq. yd. rock roads on U. S. Reservation, Miami Beach, Fla., north of and adjacent to Government Cut.

School Supplies and Equipment.—Trustees of Pineville Consolidated School Dist., Office of County Supt., Gulfport, Miss.—Bids Aug. 22 for furnishing school supplies and equipment for Pineville, Miss.

School Furniture.—Dist. Commrs., Washington, D. C.—Bids Aug. 21 for pupils' desks, chairs and tables for use in public schools.

Sewers.—Dist. Commrs., Room 509, Dist. Bldg., Washington, D. C.—Bids Aug. 21 for 9153 ft. sewer from 10-in. to 4-ft. in size.

Sidewalks.—Frankfort, Ky. See Roads, Streets, Paving.

Sidewalk.—Fredericksburg, Va. See Construction News—Roads, Streets, Paving.

Sidewalks, etc.—Abbeville, La. See Construction News—Roads, Streets, Paving.

Steel Sheets.—Norfolk and Western Ry. Co., Clyde Coker, Pur. Agt., Room No. 351, N. & W. Bldg., Roanoke, Va.—Bids Aug. 15 for 1400 sheets locomotive packet steel, Contr. Serial AA-537.

Street.—Tampa, Fla. See Construction News—Roads, Streets, Paving.

Street.—Greensboro, N. C. See Construction News—Roads, Streets, Paving.

Street.—Vinton, La. See Construction News—Roads, Streets, Paving.

Tar and Asphalt Distributor.—E. D. Jervay, Engr., Sanitary and Drainage Comn., 39 Broad St., Charleston, S. C.—Bids Aug. 16 for one 600-gal. capacity tar and asphalt distributor.

Textbooks.—Dist. Commrs., Washington, D. C.—Bids Aug. 20 for text books for use in public schools.

Trade Literature

Hangars.—From the Virginia Bridge and Iron Company, Roanoke, comes a timely pamphlet, "Hangars," describing this important factor in aeronautics as manufactured by this concern. The hangars are of steel and are described in detail, in words, pictures and diagrams.

Are Welding.—Arc welding in industry and arc welding in GE factories are the subjects and the titles of two bulletins issued by the General Electric Company, Schenectady, N. Y. Many of the varied processes in which welding is used are pictured and the bulletins are filled with interesting and important information.

Burners.—As a barometric conversion type burner, Economy Low Pressure Gas Burners are described in a pamphlet issued by the Economy Burner & Engineering Company, Pittsburgh, Pa., attention being called also to such burners for power purposes. The power burners are described in a separate catalogue.

Dumbwaiters.—Described as a treatise, a circular, with an engaging cover page, has been issued by the Warner Elevator Manufacturing Company, Cincinnati, Ohio, describing type E-18 electric dumbwaiter, manufactured by that concern. Illustrations are of informative value.

Heating.—With emphasis on the factor of economy, Webster, Tallmadge & Co., Inc., New York, specialists in steam engineering, have issued a brochure, "Correct Heating," in which are set forth "simple facts" of interest on that line. Diagrams and illustrations add to the value.

"Getting Facts About Accidents" is the second of a series of publications issued by the Metropolitan Life Insurance Company, New York, presenting the basic principles of successful industrial safety work. This booklet outlines current industrial practice in obtaining and using accident facts as a means of promoting plant safety.

Creosoting.—In a miniature booklet, "The Autobiography of a 'Black Beauty' Pole," the Texas Creosoting Company, Orange, Tex., tells "a tale of a tree that made a name for itself." The career of this tree, from the time of "leaving the woods" till it gets "up

in the world," is full of interest and one leaves it serving "a very useful purpose," with promise of long continuance of its value.

Combustion.—"The Safety Valve" for July, published by the Combustion Engineering Corporation, New York City, presents descriptions of boiler arrangements and certain types of furnaces for burning wood refuse fuel. Operators of lumber mills and industrial plants using woodworking machinery are giving attention to the utilization of waste wood for fuel, and copies of "The Safety Valve" will be sent on request to the corporation.

Wood Preserving.—A series of direct-by-mail folders on wood-preserving and such products has been directed by J. F. Prettyman & Sons, Charleston, S. C., wood preserving, to approximately 10,000 users and prospective users of creosoted bridge and dock timbers, transmission poles and crossies. "Prettyman preservation defeats decay," says one folder, and the practical value of such treated products is made clear.

Explosives.—A new and revised edition of the "Blaster's Handbook" has been issued by the explosives department of E. I. du Pont de Nemours & Company, Wilmington, Del., in handy, pocket size. A section is devoted to pellet powder, a relatively new type of explosive as far as the United States is concerned, with sections also on du Pont Extra Dynamites; Agritol, for agricultural blasting; electric firing and ore mining, coal mining and tunneling.

Tractors.—A set of four books covering different phases of industry have been published by the Caterpillar Tractor Co., San Leandro, Cal., and Peoria, Ill. The titles are: "Caterpillar Power for Public Utilities," "Caterpillar Power for Factories," "Caterpillar Power for Mines and Quarries," "Caterpillar Power for Railroads, Warehouses and Docks." They are completely illustrated with action photographs gathered from "Caterpillar" jobs throughout the world.

Book Review

Influencing Men in Business. By Walter Dill Scott, Ph.D., New York: The Ronald Press Company. Cloth. Pp. 172. \$3.

When first published, 17 years ago, Dr. Scott explains, this book aimed to explain the principles of psychology as applicable especially to selling and advertising; this revision and enlargement by Dr. Delton T. Howard, associate professor of psychology at Northwestern University, brings the subject up to date. Illuminating is the dedication by the author to: "The young business man whose interest is in influencing men rather than in handling things, and who is studying to make his arguments more convincing and his suggestions more coercive." The nature of the book is therein explained. Following an analysis of deliberation, the book takes up analysis of suggestion and contrasts deliberation and suggestion. Types of decision are discussed, and contrast is drawn between the times for use of "arguments" in influencing men and for use of "suggestions" in such influence. How to make both arguments and suggestions effective is also told by the author.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Opens Southern Headquarters at Memphis.

The twelfth field office established by the National Lumber Manufacturers Association for the promotion of lumber and wood products was opened recently at Memphis, Tenn., with offices in the Bank of Commerce Building. It was announced by John M. Gibbs, trade extension manager of the association. The Southern district will include Southern Ohio, Southern Indiana, Southern Illinois, Kentucky, Central and Western Tennessee, Central and Eastern Arkansas and the Mississippi River Valley. The Hardwood Manufacturers Institute, with headquarters at Memphis, already is actively promoting an increased demand for hardwood lumber under the direction of J. H. Townshend, executive vice-president. Plans provide for close co-operation with the institute to enable hardwood manufacturers who are supporting the \$5,000,000 trade promotion campaign of the national association to obtain maximum benefit from the national program.

Cement-Gun New York Office.

The Cement-Gun Construction Company announces that its New York office, 2621 Grand Central Terminal Building, hereafter will be in charge of Edw. C. Swann.

National Cast-Iron Pipe Officials.

Paul A. Ivy has been elected vice-president of the National Cast-Iron Pipe Company, in which a controlling interest recently was purchased by James B. Clow & Sons, Chicago. E. E. Linthicum continues as president, A. P. Finch is general manager, W. H. Saunders is assistant general manager and A. M. Ford is chief engineer. The company is a licensee of the Centrifugal Pipe Corporation.

New Bethlehem Steel Officials.

The Bethlehem Steel Corporation announces the retirement of William F. Hartmann as treasurer and the election of William J. Brown as treasurer of Bethlehem Steel Corporation and J. P. Bender as treasurer of Bethlehem Steel Company and Bethlehem Shipbuilding Corporation, Ltd.

Bethlehem Steel Personnel Changes.

The Bethlehem Steel Company announces changes in the structural and plate sales organization, by which V. A. Jevon becomes manager of structural and plate sales at Chicago; A. G. Williams is appointed manager of structural and plate sales at Pittsburgh, Pa., and Alfred B. Scott is appointed structural and plate sales agent for the Bethlehem dis-

trict at Bethlehem, Pa. Also Paul Mackall becomes vice-president in charge of general sales, succeeding E. S. Knisely, who is made assistant to vice-president, and H. G. Walton becomes general manager of sales.

Girard Smelting and Refining Purchase.

The Girard Smelting and Refining Company, Philadelphia, Pa., has purchased the entire plant and property in Philadelphia formerly occupied by the Tacony Steel Company, on the Delaware River and on the main line of the Pennsylvania Railroad. The plant, which represents an original investment of over \$3,000,000, is particularly well adapted for the smelting and refining of non-ferrous metals and residues, and plans are being drawn for the installation of the most modern equipment in the metal industry.

New Dump Car Is Announced.

The Koppel Industrial Car and Equipment Company, Koppel, Pa., has placed on the market an improved design, all steel, 100,000 pounds, 30 cubic yard capacity automatic rolling trunnion air pump car, class RTD-30. Its bulletin No. 59, describing this new car, is ready for distribution.

Walraven Company's New Quarters.

In line with its development and the expansion of its service facilities, the Walraven Company, Atlanta, Ga., hardware and contractors' supplies, machine tools, etc., has moved its office to 19 Pryor street, N. E., Atlanta.

\$900,000 Automatic Signal Installation Under Way by Baltimore & Ohio Railroad.

The office of the Signal Engineer of the Baltimore & Ohio Railroad has issued the following interesting description of the \$900,000 automatic signal installation under way on the Monongah Division between Grafton and Parkersburg, W. Va., a distance of 102 miles, comprising approximately 13 miles double track and 89 miles single track:

"The entrance and exit of passing sidings will be interlocked, using either electro-mechanical or table lever interlockings, the latter also comprising traffic levers by means of which electric locking and directional control between adjacent interlockings is established.

"Signals will be of the color position light type which were designed by the late signal engineer, F. P. Patenall.

"Trains will be moved entirely by signal indication.

"A 440-volt single-phase power line, consisting of two (2) No. 4 A.W.G. double-braid weatherproof copper wires supported on the lower cross arm on Western Union Telegraph Company's poles throughout the entire district will supply power for charging storage batteries for the operation of all track and line relays. The average length of the various power circuits will be ten (10) miles, each circuit being supplied from the most convenient commercial source and means provided for supplying power to each circuit from either end, so that in case of failure at one end it may be supplied at the opposite end.

"Signals will be approached lighted from the alternating current line under normal operation and from the storage batteries through power failure relays in case of an alternating current interruption.

"The power line will be transposed at various points to prevent inductive interference on adjacent telephone circuits.

"A novel feature of the system, not used on other railroads, will be that of providing a stop and proceed aspect for following trains to enter an occupied block, while a positive stop indication will be displayed against opposing trains."

Electric Service for Georgia Farms.

Atlanta, August 4.—As a definite step toward extending electric service to Georgia farms, the Georgia Power Company has placed in service its first two rural power lines, known as the Harrison, Ga., and Bellville-Manassas lines. Three other rural lines are nearing completion and 15 additional lines either are under construction or have been authorized.

The Harrison line provides service to Harrison and to farmers residing within about three miles and already has 46 customers. The Bellville-Manassas line, serving those two towns with electricity for power and lights, also makes power available to farmers of the vicinity and has 51 customers. The Fairmount line, near Cartersville, and the Bloomfield Road and Columbus Road lines, near Macon, are nearing completion.

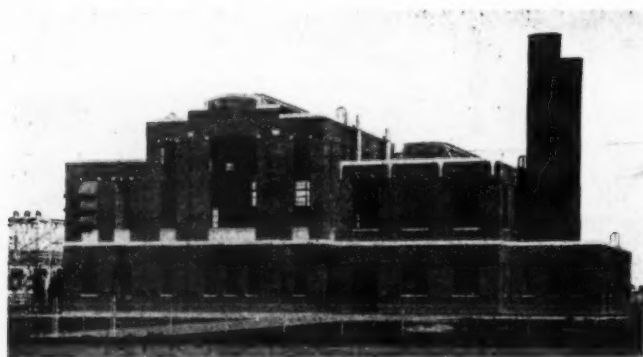
One-Stalk Cotton Prizes.

An announcement of one-stalk cotton shows to be held at Atlanta, Memphis and Dallas says that to stimulate interest in economical production of better cotton, "from which the farmer gets bigger profits," the Sears-Roebuck Agricultural Foundation and the soil improvement committee, Southern division, National Fertilizer Association, are co-operating in holding three one-stalk cotton shows this fall. These shows will be held at the following fairs: Southeastern Fair, Atlanta, October 1-8, for Virginia, North Carolina, South Carolina, Georgia, Alabama, Florida; State Fair, Dallas, October 6-21, for Oklahoma and Texas; Tri-State Fair, Memphis, October 13-20, for Tennessee, Mississippi, Arkansas, Louisiana. Competition is open to any grower, white or colored, of any age in the states named and prizes and awards totaling approximately \$10,000 are offered, including \$1000 for the best single stalk of cotton grown in the South.

New Electric Plant at Amarillo.

A new 13,500-horsepower electric power plant recently completed at Amarillo, Tex., by the Southwestern Public Service Company of that city, replaces an inadequate plant which served Amarillo and surrounding territory. The new plant is located on a 25-acre site about one and one-half miles east of the city and provision has been made for future extensions without interfering with the operation of the original installation. The plant building is of concrete, steel and brick with tile and composition roof, all fireproof. Ample provision has been made for lighting by means of large windows and skylights in both the turbine and boiler rooms. Boilers consist of three 8360 square feet of inclined tube units equipped with superheaters and designed to operate at 300 per cent rating with a steam working pressure of 300 pounds per square inch and 250 degrees of superheat.

Necessary draft for the boilers is furnished by motor-driven high speed multivane induced draft fans mounted on foundations at the ground floor level, back of the boilers and directly under the stacks. The boilers are fired normally with natural gas, although provision has been made for oil firing in emergency. They are equipped with meters that record the flow of steam, air and flue-gas, and indicate the tempera-



AMARILLO'S 13,500-HORSEPOWER ELECTRICAL PLANT.

ture in the furnace. Flow and temperature of feed-water to the boilers and flow and temperature of the steam to the main turbine units are also recorded. Water is delivered to the boilers by centrifugal pumps with a capacity of 300 gallons per minute; one of these is driven by a steam turbine and the other by a motor. Feed water is controlled by automatic regulators.

Electric generating equipment consists of two main turbine generators of 5000-k. w. three-phase, 60-cycle, 13,200-volt, 3600-r. p. m., with direct-connected exciters. An auxiliary turbine-driven exciter has also been provided. A two-pass surface condenser of 8500 square feet has been mounted on spring supports under each turbine. Circulating water is delivered to the condensers by two centrifugal pumps of 5000-revolutions per minute capacity each, at 1160 revolutions per minute. One pump is driven through reducing gear by steam turbine and the other by direct-connected motor. Air is removed from each condenser by a two-stage air ejector and condensate is removed by two centrifugal pumps, each having a capacity of 125,000 pounds an hour. The condensate is delivered to vertical open type deaerating feed water heaters each of 80,000 pounds capacity an hour. Bleeder steam from the main turbines and exhaust steam from the small turbines are used to heat the feed water. Condensing circulating water is cooled and stored in a concrete spray pond 180 feet wide, 320 feet long, and 3.6 feet deep, divided into 4 equal compartments, each of 300,000 gallons capacity. Outside bus and switching structures, transformers and lightning arrestors provide necessary tie and distribution lines at 44,000 and 13,200 volts.

Contracts for major items of equipment were awarded as follows:

Air washer—Spray Engineering Company, Boston, Mass.
Atmospheric relief valve—C. H. Wheeler Manufacturing Company, Philadelphia.
Auxiliary transformers—Pittsburgh Transformer Company, Pittsburgh.
Boiler feed pumps—De Laval Steam Turbine Company, Trenton, N. J.
Boiler feed pump speed control—Hagan Corporation, Pittsburgh.
Boiler settings—George Allen and Sons, Amarillo.
Breeching and stack—Connerly & Co., Inc., Philadelphia.
Crane—Niles Crane Corporation, Philadelphia.
Deaerating heater—Elliott Company, Pittsburgh.
Feed water regulators—Northern Equipment Company, Erie, Pa.
Feed water meters and other meters—Bailey Meter Company, Cleveland, Ohio.
Fire brick—Laclede-Christy Clay Products Company, St. Louis.
Frequency recorder—Leeds & Northrup Company, Philadelphia.
Gas burners—Forney Combustion Engineering Company, Dallas, Texas.
Gate and globe valves—The Lunkenheimer Company, Cincinnati.
Generator—General Electric Company, Schenectady, N. Y.
House service pumps—Warren Steam Pump Company, Warren, Mass.
Indoor connecting switches—Electric Power Equipment Corporation, Philadelphia.
Induced draft fans—B. F. Sturtevant Company, Inc., Boston.
Lightning arresters—General Electric Company.
Machine shop equipment—Niles Tool Works Company, Hamilton, Ohio.
Main switchboard—Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa.
Main transformers—Pittsburgh Transformer Company, Pittsburgh.
Main turbine—General Electric Company.
Non-return valves—Foster Engineering Company, Newark, N. J.
Outdoor disconnecting switches and structures—Delta Star Electric Company, Chicago, Ill.
Pipe fabrication—Standard Piping and Fitting Company, and erection by Day & Zimmerman Engineering and Construction Company, both of Philadelphia.
Pressure gauges—Crosby Steam Gauge and Valve Company, Boston.
Spray nozzels and piping—Yarnall-Waring Company, Philadelphia.
Station switchboard—General Electric Company.
Stirling boilers—Babcock & Wilcox Company, New York.
Temperature recorders—Foxboro Company, Inc., Foxboro, Mass.
Thermometers—Taylor Instrument Companies, Rochester, N. Y.
Water columns—Babcock & Wilcox Company.

New \$500,000 Hotel for Vicksburg.

General contract has recently been awarded by the Magnolia Hotel Company of Vicksburg, Miss., to H. L. Stevens & Company, Chicago, for the erection of a hotel at Vicksburg, to cost approximately \$500,000, including \$100,000 for furnish-



MAGNOLIA HOTEL TO BE ERECTED AT VICKSBURG, MISS.

ings and equipment. The building will be 103 by 73 feet, 8 stories, of reinforced concrete construction, and designed by the Stevens organization. It will contain about 130 rooms, convention hall, private dining room, ball room, shops and other facilities. Plans will soon be ready for sub-contracts.

Contracts for \$1,000,000 Helium Plant in Texas.

Amarillo, Tex.—The United States Bureau of Mines, Department of Commerce, Washington, has awarded the following contracts for a \$1,000,000 helium production plant near Amarillo:

General construction—James T. Taylor, Fort Worth.
Compressors—C. & G. Cooper Company, Mt. Vernon, Ohio.
Drilling and equipping water wells—D. J. and W. D. Muncy, Amarillo.
Fencing plant site—Fort Worth branch of Cyclone Fence Company, Waukegan, Ill.
Gas holders and water tank—Chicago Bridge and Iron Company.

The plant site comprises 18.5 acres between Federal highway No. 66 and the Chicago, Rock Island and Gulf Railroad. It was donated for the project by W. H. Bush of Amarillo, and will be served by the Rock Island, which will construct a side track. Buildings to house the more important parts of the equipment will be of steel frame and hollow tile construction, while others will be of mill type timber framing and walled with corrugated fireproof sheeting. Provision has been made for future expansion. Mechanical equipment will consist primarily of gas engines, gas compressors and apparatus for low temperature liquefaction of gas. Some of it will be provided by moving spare units from the helium production plant at Fort Worth, and the remainder will be new. Contracts call for the completion of the plant within 75 days.

Helium bearing natural gas for the plant will be furnished by the Amarillo Oil Company, from the Cliffside structure northwest of Amarillo. Most of this land is leased by the Amarillo Oil Company, which has recently completed an excellent gas well, extending the proved gas area of the structure about a mile to the northeast of the wells previously completed. The new well came in with an open flow volume of 7,100,000 cubic feet per day and a rock pressure of 725 pounds per square inch, and the helium content of the gas is said to be as high as that from other wells on the structure. The company is now drilling a well to the southeast of the existing wells and is building a pipe line to bring the gas from the wells to the plant.

Extensive Building Activity at Corpus Christi, Texas.

Corpus Christi, Tex.—The valuation of building permits issued here during 1928 exceeds \$4,000,000, according to the figures in the office of H. L. Shaw, city engineer.

Among the larger permits that have been issued during 1928, were those to the Nueces County Navigation Commission for improvements to port facilities, the Aransas Compress Company and Port Compress Company for additions to their large plants, the Plaza Hotel Properties' 14-story structure, Nueces Hotel annex, Nixon building annex, Pope office building of nine stories, Travis Cottonseed Oil Mill and many others.

While the majority of the permits have been issued for business buildings, over 100 of which have been built or are now under construction, the building of dwellings has not been neglected. Over 300 new houses have been built in Corpus Christi during the present year.

Perfects Life Boat Releasing Gear.

Norfolk, Va.—Capt. Geo. W. P. Overman announces he has secured a patent on a life boat releasing gear, and plans to let contracts for the manufacture of the various parts, principally malleable iron castings. It is said that one man can release a life boat from nine secured points in a few seconds and simultaneously suspend the boat ready to swing out, which operation is said to be done usually by nine to ten men in one minute. A releasing hook is also installed in the life boat so that one man can release both ends of the boat at one time with ease.

\$900,000 BLEACHERY AND FINISHING PLANTS PROPOSED.

South Carolina and New York Firms Consolidate—Hartsville Print and Dye Works Organized.

Hartsville, S. C.—The Hartsville Dyeing and Finishing Company, until recently the Easton Finishing Company, of Easton, Pa., has completed negotiations for merging with the Bronx Company, Inc., which operates a large print and dye works near Bronx Park, New York. The consolidated companies will incorporate as the Hartsville Print and Dye Works and organize with the following officers: Fred B. Voegeli, president; A. L. M. Wiggins, Hartsville, vice-president and financial director; Robert W. Bole, New York, treasurer. Samuel L. Hayes, formerly of the Bronx plant, will be general superintendent of the Hartsville plant.

A bleachery 800 feet long and covering an area of 65,000 square feet is being built by the Hartsville Dyeing and Finishing Company. This will be completed by the new company and an additional plant of 80,000 square feet will be erected to house the print works. Machinery is being dismantled in the Bronx plant preparatory to being shipped to Hartsville. Robert & Company, Inc., Atlanta, are engineers for the project. Approximately \$900,000 will be invested in the two plants, which will bleach, dye and print all constructions of cotton, rayon and cellulose acetate fabrics for men's, women's and children's wear. The daily production will be about 250,000 yards.

Both plants will be served by a spur of the Seaboard Air Line Railway, whose Industrial Department, in co-operation with the Industrial Department of the Carolina Power and Light Company and with the Hartsville Chamber of Commerce, was instrumental in securing the enterprise for Hartsville. It is believed the establishment of these plants will pave the way for the location of other industries in the Hartsville section, which will use the output of the new company, such as shirt and garment factories. A site of 45 acres has been acquired for the new plants.

Germany's Immense Nitrogen-Fixation Plants.

The impressive magnitude of the German plants for the fixation of atmospheric nitrogen for use in fertilizer is described by Dr. H. C. Parmelee in the June issue of Chemical and Metallurgical Engineering. According to that paper, "when the nitrogen-fixation plants at Oppau and Merseburg are completed according to plans already laid down, they will have an annual capacity during the fertilizer year of 1928-29 of 700,000 tons of nitrogen—about 150,000 tons at Oppau and 550,000 at Merseburg. This production will require the nitrogen contained in about 770,000,000 cubic meters of air."

These plants have grown from the one brought into production at Oppau in 1913, with a capacity of 30 tons of ammonia, or just under 25 tons of nitrogen. Today the Merseburg plant is the largest nitrogen-fixation plant in the world. Both the Oppau and Merseburg plants "use the same technical process for fixing nitrogen as ammonia," says Dr. Parmelee, "but they differ in their methods of power production and in their fertilizer products." He continues:

"At Oppau, gas engines are the principal prime movers. The Merseburg works, on the other hand, being located adjacent to extensive deposits of brown coal that is cheaply mined and delivered to boiler-house bunkers, use steam power. The boiler houses, seven in number, extend for an unbroken line for over one mile and constitute the largest steam-generating station in the world. Coke is used at both plants for making water gas. The nitrogen products at Merseburg are ammonia water and ammonium sulphate, only. At Oppau, there is also an ammonia oxidation plant, and a greater variety of fertilizers is made—ammonium sulphate, chloride and phosphate, urea and calcium, sodium, potassium and ammonium nitrates."

FINANCIAL NEWS

Bond Issues Proposed

Ala., Birmingham—Public Improvement—City Comm. receives bids Aug. 28 for \$210,000 4½% \$1000 denom. bonds.

Fla., Bradenton—Refunding, Park—City, L. L. Hine, Clk., rejected bids for \$412,000 5½% bonds. 7-12, 7-19

Fla., Orlando—Orange County Bd. of Public Instruction will call election Aug. 14 on \$30,000 Special Tax School Dist. 7 bonds; A. B. Johnson, Supt.

Ga., Summerville—Paving—City votes Aug. 11 on \$20,000 bonds.

Ky., Paris—Jail—Bourbon County may vote in Nov. on \$200,000 to \$250,000 bonds.

Miss., Aberdeen—Bridge—Monroe County, Road Dist. 4, voted \$35,000 bonds. 7-26

Miss., Laurel—School—Sandersville, Eratta, Red Hill and Rustin School Dist., Jones County, voted \$50,000 bonds.

Miss., Senatobia—School—Bd. of Aldermen plans \$10,000 bond election.

Miss., Water Valley—Road—Yalobusha County, Beat 4, voted bonds. 6-21

N. C., Charlotte—School—Mecklenburg County Commrs., F. M. Gresham, Clk., considering \$80,000 bond issue.

N. C., Graham—Alamance County Commrs. plan selling \$65,000 county bonds.

N. C., Leaksville—Leaksville Township Public School Dist. defeated \$500,000 bond issue. 6-21

Okla., Ardmore—Road—Carter County Commrs. considering \$500,000 bond election.

Okla., Maud—Water—City voted \$75,000 bonds.

Okla., Oklahoma City—Street—City plans bond issue.

Okla., Seminole—Park—City, Pal Noe, Clk., votes Aug. 21 on \$12,500 bonds.

Okla., Weatherford—Sewer—City voted \$45,000 bonds.

S. C., Aiken—City, Henry Busch, Clk., defeated \$324,500 4½% coupon bonds: \$125,000, drainage; \$92,500, paving; \$82,000, indebtedness; \$25,000, sewer. 7-19

S. C., Bamberg—Paving—City votes Aug. 14 on \$60,000 bonds.

S. C., Greenville—Greater Greenville Sewer Dist. Comm., T. C. Gower, Chmn., receives bids Aug. 15 for \$300,000 \$1000 denom. bonds; bidders to name rate of interest.

S. C., Greenwood—Highways—Greenwood County Highway Comm. receives bids Aug. 21 for \$250,000 bonds.

S. C., West Greenville, Greenville—Water—City plans selling \$65,000 bonds.

Tenn., Camden—Water, Sewer—City defeated \$93,000 bond issue. 7-26

Tenn., Elizabethton—City voted \$225,000 bonds for street, sidewalk and sewer improvements in 47 districts. 6-14

Tenn., Knoxville—Auditorium—City, Otto Roehl, Mgr., defeated \$350,000 bond issue; plan selling, within next 30 days, \$650,000 street improvement bonds. 6-14

Tenn., Knoxville—City, Otto Roehl, Mgr., voted \$3,000,000 bonds: \$1,000,000, bridge; \$2,000,000, sewer extension. 6-14

Tenn., Nashville—State Funding Bd. plans selling soon \$1,500,000 Great Smoky Mountain Park bonds.

Tenn., Ripley—Paving, etc.—City voted \$75,000 bonds; plans selling bonds.

Tex., Brownsville—Irrigation—Los Fresnos Dist., Water Improvement Dist. 10, V. L. Conrad, Engr., contemplates bond election soon.

Tex., Commerce—City Comm. plans issuing \$35,000 bonds for sewer, water, paving and school repairing.

Tex., Fort Stockton—Pecos County Commrs. Court, H. L. Winfield, Clk., receives bids Aug. 13 for \$500,000 bonds: \$235,000, to retire road dist. bonds; \$265,000, roads. 8-2

Tex., Galveston—Road—Galveston County, E. B. Holman, Judge, considering bond election, contingent upon State and Federal aid.

Tex., Jewett—Jewett Independent School Dist. voted \$25,000 bonds.

Tex., Luling—Road—City considering \$200,000 bond election.

Tex., Mission—Hidalgo County, Mission Irrigation Dist., contemplates \$3,000,000 bond issue to conc. canals in district.

Tex., Odessa—Paving—City, Mayor McKinney, considering bond issue.

Tex., Palestine—City votes Sept. 15 on \$75,000 bonds: \$60,000, street improvement; \$15,000, school. 7-26

Tex., San Antonio—Municipal Improvement—City, C. M. Chambers, Mayor, may receive bids in Sept. for \$4,755,000 bonds. 7-26

Tex., St. Jo—City Hall, Fire Station—City votes Aug. 15 on \$25,000 bonds.

Tex., Waxahachie—Road—Ellis County, Red Oak Dist., votes Sept. 1 on \$190,000 bonds; H. R. Stovall, County Judge. 7-26

Tex., Wharton—Road—Wharton County, Road Dist. 3, votes Aug. 18 on \$500,000 bonds.

Tex., Wichita Falls—Indebtedness—City, George D. Fairtrace, Mgr., votes Aug. 28 on \$250,000 bonds.

Tex., Wichita Falls—Water—City, George D. Fairtrace, Mgr., plans \$1,400,000 bond election.

Va., Hopewell—City, Roy S. Braden, Mgr., plans calling \$300,000 bond election in about 4 weeks; \$150,000, streets; \$50,000, sewer; \$100,000, school. 7-19

Va., Newport News—City, A. M. Hamilton, Clk., receives bids Sept. 24 for \$175,000, 4½, 4½ or 4¼% bonds: \$130,000, school; \$45,000, library.

W. Va., Martinsburg—School—Bd. of Education will call election Oct. 2 on \$125,000 bonds.

Bond Issues Sold

Fla., Bonifay—City, K. D. Brooks, Clk., sold \$50,000 6% \$1000 denom. bonds to State Bd. of Education: \$40,000, sewer; \$10,000, water. 7-12

Fla., Wauchula—Hardee County sold \$15,000 6% Special Tax School Dist. 31 bonds to Bumpus & Co., Detroit, Mich., for 98.27.

Mo., Independence—Road—Jackson County Court, J. H. Fayman, County Treas., sold \$1,000,000 4% \$1000 denom. bonds to Prescott, Wright & Snider Co., 918 Baltimore Ave., Kansas City, \$967,115.

N. C., Salisbury—Rowan County Commrs., Max L. Parker, Clk., sold \$65,000 bonds: \$20,000 5% Providence School Dist. 1, Well, Roth & Irving Co., Cincinnati, Ohio, \$44 premium; \$20,000 5½% Faith School Dist., Morris Mather & Co., Chicago, Ill., \$321 premium; \$25,000 5% Blackwell School Dist., Well, Roth & Irving Co., \$102 premium. 7-12

Okla., Ardmore—School—City sold \$135,000 bonds to First Nat'l Bank, Ardmore. 7-26

Tenn., Jackson—Paving—City, Lawrence Taylor, Mayor, sold \$51,000 4¼% bonds to R. W. Spragins & Co., Jackson, at discount of \$280. 8-2

Tenn., Somerville—Road, Bridge—Fayette County Road and Bridge Committee, A. M.

Langdon, Chmn., sold \$600,000 4¼% bonds to Bankers Trust Co., New York, Ames, Emrich & Co., Chicago, Ill., American National Co., Nashville, \$2400 premium. 7-12

Tex., Houston—School Bd. sold \$1,074,000 4¼% Independent School Dist. bonds to syndicate composed of Illinois Merchants Trust Co., Harris Trust & Savings Bank, both Chicago, Ill., and Houston Land & Trust Co., Houston, par, accrued interest and \$2063 premium. 6-14

Tex., Marlin—Sewer, Sewage Disposal Plant—City, J. M. Kennedy, Mayor, sold \$76,000 5% \$1000 denom. bonds to Garrett & Co., Dallas, par and accrued interest. 7-19

Tex., Wharton—Road—Wharton County sold \$200,000 bonds to George L. Simpson & Co., Dallas, par, accrued interest and \$8142 premium.

Building and Loan Associations

Tenn., Johnson City—Savings Building and Loan Assn. of Johnson City, capital \$1,250,000, chartered; Stanyarne Little, E. C. King, James Wampler.

New Financial Corporations

D. C., Washington—Empire Mortgage and Investment Co., American Bldg., authorized capital \$250,000, organized; Kenneth M. Livingston, Pres., 1317 F St., N. W.

Fla., Tallahassee—Florida Fidelity Surety Co. of Tallahassee, capital \$1,000,000, chartered; George C. Crawford, Pres., Tallahassee; G. Scott Gregory, V.-P., Quincy; T. M. Jones, Sec., Sebring.

Ky., Milford—M. W. Dickey organizing bank to be opened about Oct. 1; will be Cashier of bank.

Ky., Olive Hill—First National Bank of Olive Hill, capital \$30,000, organized; R. T. Kennard, correspondent.

Va., Goshen—Bank of Goshen, capital \$50,000, chartered; J. W. Paxton, Pres.; J. B. Wood.

State Finance Commr., S. L. Cantley, Jefferson City, approved merger of Union State Bank, W. W. Craig, Pres., and Bolckow State Bank, R. H. Carter, Pres., both Bolckow, Mo., as Bolckow State Bank.

Stockholders of Farmers National Bank, A. J. Jones, Pres., capital \$50,000, Lafollette, Tenn., voted to liquidate and merge with First Nat'l Bank, W. S. McKamey, Pres., capital \$50,000.

Richland State Bank, capital \$60,000, C. J. Ellis, Pres., Rayville, La., acquired Commercial Bank, capital \$25,000.

Peoples Bank of LaGrange, capital \$15,000, and Oldham Bank and Trust Co., capital \$50,000, both LaGrange, Ky., consolidated as Bank of LaGrange, capital \$30,000; Robert T. Crowe, Pres.; R. O. Duncan, V.-P.; R. H. Snyder, Cashier.

Miami Beach Bank and Trust Co., Ben Shepard, Pres., Miami Beach, Fla., plans increasing capital, \$50,000 to \$150,000.

Citizens Bank of Thornton, Thornton, Ark., capital \$10,000, reopened; J. M. Thompson, Pres.; Dr. T. E. Rhine, V.-P.; Lois Morris, Cashier.

Canal Bank and Trust Co., J. P. Butler, Pres., purchased assets of Marine Bank, L. M. Poole, Pres., all New Orleans, La., total resources of combined institution \$127,705,506; L. M. Poole, J. A. Bandi and Wm. P. O'Neal will be vice-presidents of combined banks. 7-12

First Water Shipment of Kraft Paper Up Mississippi and Ohio Rivers.

Monroe, La.—The first water shipment of kraft paper by the International Paper Company up the Mississippi and Ohio Rivers has just left here for Wellsburg, W. Va. The shipment consists of a barge carrying 24 freight carloads of Gator Hide kraft paper made at the Bastrop, La., mills of the company to its Wellsburg mill for conversion there into multi-wall cement bags.

It is expected that this is the beginning of regular water shipments of kraft paper by the company not only to Wellsburg, but to Cincinnati, Pittsburgh, and other river ports.

The company owns two kraft paper mills at Bastrop, La.; one at Camden, Ark.; another at Moss Point, Miss., and a fifth is under construction at Mobile, Ala. On the completion of the new Mobile mill, the company will have five modern mills with a capacity of 700 tons of kraft paper a day.

\$100,000 for Louisiana Game and Fish Preserve.

Natchitoches, La.—The Governor has signed House Bill 85, introduced by Representative Cecil B. McClung, of this city, creating the Northwest Louisiana Game and Fish Preserve, and appropriating \$100,000 to build the necessary dams and spillways, and equip the preserve.

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

Eliminating Repairs and Maintenance Costs

TRENTON WATER WORKS, Trenton, N. J., has been using Leadite for making joints in c. i. bell and spigot water mains for a great many years with entire satisfaction.

They have laid nearly 75 miles of c. i. pipe of various sizes with Leadite joints.

Trenton has very good paved streets and they have never had to dig up a Leadite joint for repairs during all the time they have been using Leadite. They consider this excellent performance for Leadite joints.

They find the use of Leadite has reduced to a minimum repairs and maintenance costs.

Trenton Water Works has always found Leadite joints efficient and economical.

They keep a check on their distribution system by water waste surveys.

During the severe winter of 1917-18 Trenton Water Works had over 2000 frozen services. Many of these services were connected to mains laid with Leadite joints. They had no difficulty in thawing, with electrical apparatus, services connected with mains which were laid with Leadite joints.

Mr. Alvin Bugbee is Superintendent of the Trenton Water Works.

Specify
and use
LEADITE
It saves
at least **75%**

Be sure
it is
LEADITE
and accept
no imitations

*The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.*

THE LEADITE COMPANY . . Land Title Building . . PHILADELPHIA, PA.

NO CAULKING

Bankers to Stimulate Industry in the South.

In announcing the establishment of an industrial development department of the General Securities Corporation of Birmingham, Ala., to aid in bringing new industries into the South and in strengthening those already established, through consolidations and mergers, C. O. Yoakum, executive vice-president of the General Securities, says in part:

"The industrial development department undertakes through national advertising and personal contact to interest manufacturers in the tremendous natural wealth and industrial possibilities of the Southern States. We are convinced that this endeavor, properly supervised, will eventually result in a number of industries transferring their operations to this section.

"The South has in great abundance those things that attract industry—raw material, native Anglo-Saxon labor, power and accessibility to markets. We believe it is only necessary to tell the South's story to attract a large portion of the Nation's industry, and this is what we are doing.

"Another phase of the new department's work is that of strengthening the smaller industries already established in the South. We regard this as of as much importance to the section's industrial development as the bringing in of new industrials. This phase of the work is accomplished through the formation of mergers and consolidations, thus eliminating uneconomic and wasteful expenditures that are necessary because of duplication in marketing and distributing."

The General Securities Corporation has resources of approximately \$1,500,000. It was organized about a year ago.

In the course of a letter to the editor of the MANUFACTURERS RECORD, Mr. Yoakum further said:

"I would like you to know that we are daily receiving letters from industrial and business projects throughout the South, from Virginia to Texas, inviting us to assist in their major financing. We largely attribute to our advertising in the MANUFACTURERS RECORD, the wide notice which General Securities is receiving.

"Although at present our board of directors is limited to Alabamians, we are considering adding to the board several directors from other Southern States. We are by no means limiting our field to this State, because we feel that there is a sufficient field in the entire South for such an institution as ours. Our new department is now engaged in taking an industrial survey of the Southern States. We have begun in Alabama and shortly expect to begin making a survey of Tennessee."

The officers of the General Securities Corporation are: President and counsel, Charles E. Rice; executive vice-president, C. O. Yoakum; vice-president, H. H. K. Jefferson; treasurer, E. R. McDavid, Sr.; secretary, K. A. Conville.

Financial Advertisers to Meet.

The 1928 convention of the National Financial Advertisers Association will be held September 17 to 20, at Utica, N. Y., and members from Baltimore and other Southern cities, including advertising representatives of banks and trust companies, expect to attend. Approximately 800 banks hold membership in the organization, which promotes advertising, publicity, new business development and trust development of banking.

\$250,000 Corporation to Aid Richmond Industry.

Richmond, Va.—The formation of a \$250,000 industrial finance corporation will probably be undertaken here within a few days, according to Mason Mangum, managing director of the Richmond Chamber of Commerce. The corporation would be designed to aid present Richmond industries to secure capital for expansion, to attract new industries by aiding them to secure more capital for growth here, and to aid in the establishment of new industries in Richmond.

City council of Wichita Falls, Tex., has called an election for August 28 on a bond issue of \$250,000 to pay off outstanding indebtedness of the city.

General Water Works Corporation Organized.

The General Water Works Corporation, New York, recently incorporated under the laws of Delaware to take over a number of water companies in Idaho, Texas, Indiana, Michigan, Kentucky and Pennsylvania, selected the following officers: Charles H. Smith, chairman of the Board; R. E. Shotts, president; L. A. Phillips, vice president; S. R. Jones, secretary; G. W. Cain, treasurer; R. Van Horn, assistant secretary, and B. M. Hebard, assistant treasurer. Its subsidiaries include the Freeport Water Company, Freeport, Pa.; Breckenridge Water Company, Breckenridge, Tex.; Jersey Shore Water Service Company, Jersey Shore, Pa.; Lloydell Water Company and Portage Water Company, Johnstown, Pa.; Texas Water Utilities Company, Fort Worth; Natatorium Company and Boise Water Corporation, Boise City, Idaho; Indiana Water Service Company, Washington, Ind., and the Winchester Water Works Company, Winchester, Ky. The corporation is offering \$5,000,000 15-year 5 per cent first lien and collateral trust bonds, series A, and \$1,650,000 3½-year 6 per cent convertible debentures, series A, through Howe, Snow & Company, Inc., New York; E. H. Rollins & Sons, Boston, and H. M. Byllesby & Company, Inc., Chicago.

Waco Votes \$2,000,000 Improvement Bonds.

Waco, Tex.—A municipal bond issue of \$2,000,000 has been voted here by an overwhelming majority. The following projects were voted: Street improvement, \$500,000; bridges and viaducts, \$190,000; storm sewers and drainage, \$250,000; fire alarm headquarters and stations, \$70,000; incinerator, \$30,000; city hall, \$225,000; airport, \$75,000, and schools, \$660,000.

Buncombe County Sells \$500,000 Notes.

Asheville, N. C.—An issue of \$500,000 of 6 per cent revenue anticipation notes has been sold by Buncombe County to W. O. Gay & Company, New York, the series to mature January 25, 1929. Proceeds will be used to retire \$500,000 revenue notes now due.

Florida County Sells \$1,100,000 Road Bonds.

Orlando, Fla.—A bond issue of \$1,100,000 has been sold by Orange County to Wright, Warlow & Company, Orlando, at par and accrued interest. With the sale of these bonds, the county has sold a total of \$4,845,000 of a \$7,000,000 issue voted in 1926 for the construction of roads.

Establishes Central Marketing Station.

Through the efforts of the Palmetto Chamber of Commerce Secretary M. E. Tinkham states there is to be established "a buyers' platform" for Manatee county at Palmetto on the Atlantic Coast Line. A part of the present freight station and open shed containing 6000 square feet of floor space and a large parking space for the farmers' vehicles will be available. The platform will be free to both buyer and grower.

Returns from a questionnaire sent to 500 growers indicate that for the coming fall and spring season 1400 cars of the following commodities will be handled:

Beets, beans, peppers, egg plant, tomatoes, potatoes, squash, okra, carrots, green corn, green onions, cabbage, lettuce, romaine, endive, parsnips, parsley, celery, cucumbers, cauliflower, turnips, English peas, watermelons, strawberries, oranges, grape fruit, blackberries, etc., and including poultry and eggs.

Farmers of the section are now preparing for celery and peppers with a large acreage in prospect this fall.

YOUR BUSINESS SOLICITED
Particular attention given to financing
SOUTHERN PROPERTIES



Special Deposits
Real Estate Loans
Trust Facilities
High Grade Bonds

THE CENTURY TRUST COMPANY
of Baltimore

Capital \$1,000,000

Surplus \$1,700,000

"THE ATMOSPHERE OF YOUR BANK"

said a customer recently, "is not cold, but radiates cheerfulness and helpfulness."

That is our aim. We are properly conservative, but we recognize the obligation resting upon all bankers to help meet deserving business requirements.

BALTIMORE COMMERCIAL BANK

GWYNN CROWTHER, President

26 South Street, Baltimore, Md.

Capital and Surplus \$1,350,000.00

Member Federal Reserve System

THE OSCAR T. SMITH & SON CO.

Manufacturing

BANK AND COMMERCIAL STATIONERS

407-9-11 E. Saratoga Street

BALTIMORE, MD.

CHARACTER

QUALITY

— **SERVICE** —

The 1928 Issue of the
BLUE BOOK of SOUTHERN PROGRESS

is now ready for distribution

IT is a vitally interesting record of the rapid and extensive growth of the South comparing its activities in the past year with former years and giving the latest data available on general topics of population, manufacturing, agriculture, mining, building and construction, airways, highways, waterways, banking, etc.

PRICE FOR COPIES

Single Copies, 50c. Lower rates for bulk orders

Banking Experience

OUR long experience, gained from daily contacts with clients in many lines of business, is at your disposal. We invite you to discuss your financial problems with us.

Oldest Bank in New York
Established 1784

Bank of New York & Trust Co.

76 William Street
New York

Capital, Surplus and Undivided Profits
over \$18,000,000

Chesnee Mills Extending Weave Shed.

In order to diversify their product, the Chesnee Mills, Spartanburg, S. C., John A. Law, president and treasurer, are extending the weave shed by an addition of 150 feet square, and adding a cloth room, 100 by 60 feet. General contract has been awarded to the Grier-Lowrance Construction Company, Statesville, N. C., and construction is expected to be completed within four or five months. The additions will be of steel and brick, with steel window frames and saw tooth roof. It is also planned to modify the lighting system in the present weave shed. Lockwood, Greene & Company of Boston, New York, Charlotte and Spartanburg, are the architects and engineers.

The following major sub-contracts have been awarded:

Lumber—Piedmont Wood Preserving Company, Augusta, Ga.

Roofing—Frank B. Ingold Company, Hickory, N. C.
Structural steel—Virginia Bridge and Iron Company, Roanoke.

Georgia and Its Resources.

Under the title, "Georgia and Her Resources," the agricultural department of the State, Eugene Talmadge, commissioner, has issued a booklet appropriate in completeness of its makeup to the importance of the subject. High tribute to the State is paid in conservative fashion by Governor L. G. Hardman. An introductory sketch tells that Georgia was "founded on benevolence," with the Colony motto, "Not for Ourselves, but for Others." The chapter, "What Georgia Offers," and chapters on such subjects as farm products, manufacturing, minerals, power, education, churches, cities, towns and resorts, and sketches of the individual counties, indicate something of the State's attractions.

**Taylor,
Wilson
& Co. Inc.**
INVESTMENT SECURITIES

**WE BUY
MUNICIPAL BONDS**
Public officials are invited to avail themselves of our facilities for preparation of legal details. Your inquiry receives prompt attention.
701-2 Dixie Terminal Bldg. CINCINNATI

HAVE YOU BONDS FOR SALE?
WE BUY ALL CLASSES OF MUNICIPAL BONDS, INCLUDING CITY, COUNTY, SCHOOL, PAVING, ROAD AND DRAINAGE.
The Hanchett Bond Co. Inc.
39 SOUTH LA SALLE ST. CHICAGO

We Buy Bonds
City, County, School and Road from Municipalities and Contractors
WRITE
THE PROVIDENT SAVINGS BANK & TRUST CO.
CINCINNATI OHIO

JOHN NUVEEN & CO.
First National Bank Building CHICAGO
We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.
Write us if you have bonds for sale.

Municipalities
Corporations
Railroads
Financed
MARX & CO. BIRMINGHAM ALABAMA

BONDS AND NOTES
We solicit your offerings
SEASONGOOD & MAYER
Ingalls Bldg. Cincinnati, O.

THE ROBINSON-HUMPHREY COMPANY
MUNICIPAL AND CORPORATION BONDS
Established 1894
ATLANTA, GA.
We Underwrite MUNICIPAL BONDS in States of GEORGIA and SOUTH CAROLINA

WE BUY MUNICIPAL BONDS
We are interested in the purchase of Southern Municipals including road, school, county, drainage and levee bonds.
M. W. ELKINS & CO.
Home Insurance Bldg. Little Rock, Ark.

We Buy and Sell
MUNICIPAL BONDS AND NOTES
CORPORATE PREFERRED
STOCK and BOND ISSUES
See Us on Southern Financing
R. S. DICKSON & CO., Gastonia, N. C.
New York Greenville, S. C. Goldsboro, N. C.

RANDOLPH-MACON SCHOOL
FOR GIRLS
Danville, Virginia
(Branch of Randolph-Macon System)

IF YOU WANT TO GET
Southern Business
Advertise in the
MANUFACTURERS RECORD

Located in famous Piedmont Section of Virginia, one hundred and fifty miles southwest of Richmond.
Offers courses which meet maximum college entrance requirements. Certificate accepted. Post-graduate courses for those who wish additional preparation.
Piano, Voice, Violin, Art and Expression.
Experienced instructors.
Ideal school home. Modern conveniences. Large campus.
Tennis, basketball, golf, etc.
Catalog gladly furnished.

John C. Simpson, A. M., Principal

Further evidence of Alabama's rapid development

(From the front page of The
Birmingham News of July
18, 1928.)

INDUSTRIES CALLING FOR CAPITAL OF \$35,000,000 PLANNED IN STATE

Just another chapter of the brilliant record of achievement the South is writing in the industrial annals of the decade.

Roger Babson has said: "Alabama is the richest of the Southern states in natural resources and is destined to become the greatest industrial state. Alabama is the Pennsylvania of the South, while Birmingham may some time outrank Pittsburgh, in population and wealth. With its great undeveloped resources of all kinds, including a water power which rivals Niagara, this state has great industrial possibilities."

This development brings Alabama that much nearer to the fulfillment of Mr. Babson's prophecy. General Securities is proud to have furnished a portion of the capital for a number of these industrial units.

GENERAL SECURITIES CORPORATION

INVESTMENT BANKERS
Birmingham, Alabama

New York Office - 535 Fifth Avenue

33 NEW PLANTS IN ALABAMA TO NEED 17,500 EMPLOYEES

Record Development Program
Summarized By Head Of
Power Company

YEARLY PAYROLLS WILL
INCREASE \$15,000,000

Concerns Diversified In Their
Location And Products To
Be Manufactured

Thirty-three major new industrial units, requiring a total capital investment of approximately \$25,000,000, are under construction or definitely assured in 23 Alabama communities, Thomas W. Martin, president of Alabama Power Company, announced Wednesday.

What is probably the largest industrial development program ever undertaken in Alabama at one time will provide employment for approximately 17,500 workers and create new payrolls of over \$15,000,000 the first year of operation.

"Diversity in the character of the products to be manufactured is a feature of the new enterprises," Martin said. "The 33 new plants will make 15 different products, including several not heretofore manufactured in Alabama. Chief among the products to be made are kraft paper and bags, silk cloth, condensed milk, cotton goods, fine cotton and rayon, woolen underwear, sweaters, fuller's earth, copper wire and furniture.

Whole State Profits
The 23 favored communities extend from the Tennessee to the Gulf and from the Georgia to the Mississippi lines. Small towns share equally with the larger cities. This diversity in location indicates that the trend in Alabama today is an accentuation of industry in an accomplished fact. While the larger centers will continue to expand, indications point toward the selection by industries of increasingly smaller communities for one-product straight production plants of medium size. The location of 10 of the new plants in 10 of the smallest communities and two of the largest is a striking evidence of the trend.

INCUMBENT DISTANCES
TWO

The Round Bale Cotton Question Again and Its Present Possibilities.

[The following letter from George A. Lowry of 79 East 130th Street, New York, throws some interesting light upon the reasons that resulted in the practical abandonment many years ago of the round bale business which, however, is now being gradually developed by Anderson, Clayton & Company of Houston, Texas.]

Mr. Lowry was the engineer of what was known as the Lowry Round Bale. The American Cotton Co. handled another round bale, and in the third year of its active operation put up cotton at the rate of about 900,000 bales a year. So great, however, was the opposition of vested interests that the company went into bankruptcy and was reorganized once or twice but finally was forced out of business.—Editor MANUFACTURERS RECORD.]

New York City.

Editor Manufacturers Record:

Conditions in the cotton spinning business and other interests connected with the handling of raw cotton have changed so materially since you advocated the Round Bale, some thirty years ago, that I think a review of the conditions which forced the Planters Compress Co. to divide the very considerable amount of cash in their treasury and quit business, and its application to present conditions is worthy of consideration.

I was a director of the Planters Compress Co., which controlled the patents, also their consulting engineer, so am able to give you some of the reasons for their forced liquidation. The Planters Compress Company was organized with a capitalization of \$15,000,000 and the stock rose rapidly from \$25 to \$180 per share. They rightly and conservatively claimed a saving of \$5 per bale, and as the annual crop was then around 15,000,000 bales the possibilities seemed enormous. They also claimed that with 4000 presses they could bale the whole crop and that they meant to do so.

It is to be remembered that this was 30 years ago and that there were many who remembered unhappily what Boston had helped to stir up some 40 years before that; and now it looked as if they were after their cotton crop and that if all the baling fell into their hands so also would the fixing of prices. This caused much anxiety and opposition through the South, which was fostered and increased by the following interests because it meant the annihilation of some and materially lessened the profits of others.

The Round Bale press compressed the cotton as it came from the gin to 48 pounds to the cubic foot or four times the density of the ginner's bale; using the same horsepower and it did away with the cotton (jute) bagging and steel ties.

The Planters fought it because they believed they were getting cotton prices for the 30 pounds of bagging and ties with which they loaded the bales. Also they feared the monopoly of the Round Bale people.

The cotton (jute) bagging people fought it because they saw the end of an annual business of rubbishy bagging amounting to 225,000 tons.

The steel men fought it because a business for 105,000,000 steel bands and buckles was in jeopardy.

The cotton seed oil men fought it because Round Bale press owners controlled all the seed they ginned.

The cotton factors fought it because they could not take enormous samples from round compressed bales; which meant to them a loss of 100,000 bales annually of cotton samples.

The cotton exchanges fought it and refused to accept the round bales on contract because it meant heavy losses in brokerages and their share of the samples filched from the uncompressed bales.

The railroads fought it strenuously because it cut their rail haulage to one-third. For example: McAllister, Texas, is quite a considerable cotton point. On a shipment destined for St. Louis, 500 miles away, it took four flat cars to haul it to the nearest compress at Pryor Creek, 100 miles = 400 haulage miles; 2 box cars to St. Louis, 500 miles = 1000 haulage miles. Total 1400 haulage miles. If compressed at the gin by the Round Bale press, one car could easily have taken the 50,000 pounds to St. Louis, a saving of 1000 haulage miles. The railroads charge \$1.50 per bale for hauling to the compress and 50c per bale for compressing. So the success of the Round Bale meant cutting their hauling to one-third, the compress charges and the final loss of \$90,000,000 invested in big compresses.

These interests combined and wherever the Round Bale people put up a gin and compress, they did likewise or subsidized a ginner in that district and put the price of seed

cotton to a figure at which it was impossible for the Round Bale people to operate.

Two out of three members of the Interstate Commerce Commission decided it was against public policy to give the Round Bale people any concessions for density, "as it would destroy too much invested capital." The third member, Commissioner Prouty, said it was the worst decision he had ever heard of.

Seeing it was not feasible to continue against this combined opposition, political and otherwise, the Planters Compress Co. wisely decided to liquidate.

These conditions no longer exist and if the Round Bale were put into general use on a small royalty per bale and in such a way that there would be no danger of monopoly of either the cotton or the seed, it could be made very profitable to the owners and to the mills. The railroads could not now get any such decision, in fact, most of them are looking for more carrying capacity for their rolling stock.

The Round Bale press compressed the cotton at first handling, viz., as it came from the gin. Cotton cannot be ginned if damp, so cotton is never so light and free of moisture as when ginned; therefore, at the gin is the best place to buy it.

The Round Bale press only used 25 horsepower against 450 horsepower used by the large compresses. In compressing it used less than 100 tons pressure against 3000 tons in the large compresses. Instead of the 30 pounds of bagging and ties, the Round Bales were covered with a duck bag closed with a draw string. It was easily removed to see the cotton and capable of being reused many times.

On a test, I have seen 84,000 pounds loaded in one box car. And the ordinary tramp steamship, of say 3800 tons cargo space, could only stow 1450 tons of square bale cotton against 3000 tons of Round Bales. This at the present chartering rates would mean a saving of over one-half on the freight.

The saving in Round Bale packing and shipping at the present time would be: On freight New Orleans to Boston, 80c to \$1 per bale; railroad charge to compress, \$1.50 per bale; bagging and ties, \$1.10 per bale; compress charge, 50 cents per bale; cutting out two railroad hauls, \$1.50 per bale.

There are many other savings. The square bales are purposely many times left exposed to the weather to absorb moisture. There is continual loss from the torn bagging, also much dirt. In the Round Bale there is a big saving in warehousing and insurance. In fact, there is not one point in the handling of cotton where there is not a saving by putting it in a highly condensed, practically rain-proof and fire (flash)-proof bale.

Outside of the saving in ocean freights these savings are just as important to the Southern mills as to those in New England and abroad.

GEORGE A. LOWRY.

79 East 130th St.

Season's Shipment of Fruit and Vegetables From Manatee County Valued at \$6,000,000.

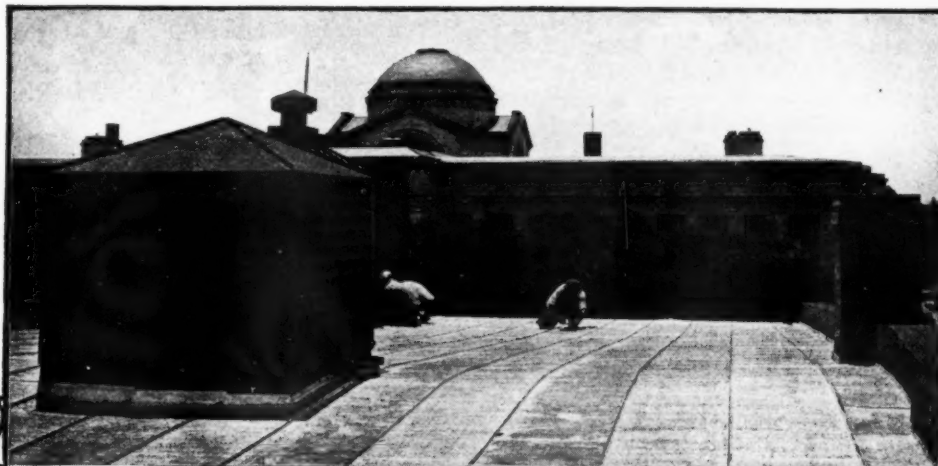
Following the 1927-28 shipping season of fruits and vegetables out of Manatee county, Florida, the civic organizations of the county arranged a "Farmers' Day" meeting in Bradenton, and it has been decided to make it an annual event.

The season, which has just closed, records 5732 carloads valued at more than \$6,000,000, of citrus fruit and winter-grown vegetables shipped during the season. The total carloads does not include the vast quantities of perishables which are moved throughout the season by express and boat lines and also the amount transported out of the county by truck.

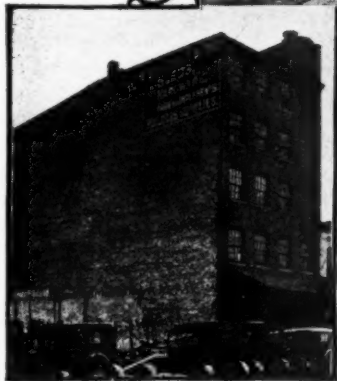
Where the Florida Crops Go.

Prepared under the State Department of Agriculture, Nathan Mayo, commissioner, and published by J. W. Clement Company-Matthews-Northrup Works, Buffalo, N. Y., a brochure of Graphic Charts of Commodity Prices in Florida, is of much value. The charts cover a series of years and a number of crops, and various large cities to which a large part of the Florida crops is shipped. Also, it shows the price obtained day by day through the shipping season in the cities indicated.

Government Test Demonstrates Fire Protection Value of Steel Roofing



The Sheet Steel Roof with Double Locked Standing Seams which was laid over the old roof. National Museum in background.



The building which was fired for the test by the U. S. Bureau of Standards.

This 21-year-old brick and timber building, centrally located in Washington, D. C., was to be torn down to make way for a new structure..

The U. S. Bureau of Standards obtained permission to burn it down, under supervision, as a practical means of fire testing various makes of safes.



The ruins of the building after the fire.

The building, however, had an old and combustible roof and the Bureau was fearful in case of high wind of the exposure hazard to adjacent buildings as a result of flying sparks and burning embers.

The Bureau therefore requested the cooperation of the Sheet Steel Trade Extension Committee in laying a steel roof over the old one to keep down fire brands. This was done.

The building was fired in the early morning of June 17. The fire department was on hand as a guard, but no water was put on the fire during the test.

Temperature readings inside the building ran as high as 2400° Fahrenheit.

The following extract from the Bureau's report gives the results.

"At 28 minutes portions of the front wall fell and between 36 and 39 minutes

there was a collapse of the upper portions of the sidewalls. This would, of course, remove all support for any roofing.

"However, particularly with masonry walled buildings, the danger from hot blasts and brands is largely over when this stage is reached. The period of protection of the metal roof during this particular fire extended up to 30 minutes after the fire started which represents a portion of the most intense period of the fire. The metal roof for this time undoubtedly helped to prevent a chimney effect, compelling the flames and hot gases to escape mainly through the front and rear of the building."

For any further desired information regarding this test, or data of any kind on steel roofing, address THE SHEET STEEL TRADE EXTENSION COMMITTEE, TERMINAL TOWER BUILDING, CLEVELAND, OHIO.

SHEET STEEL

for Strength Safety Beauty and Economy

Dallas As an Industrial and Commercial Center.

"Dallas—A Complete Market Analysis of Dallas and the Great Southwest," is a publication creditable to the large and liberal fashion the people of that section appear to use in all their undertakings. As a volume it is attractively printed and bound, while the statistical tables are judiciously selected to give a fair and comprehensive understanding of the remarkable growth taking place in that section, as well as to explain the broad and massive foundation for a far larger future development.

The four states included in the survey as constituting the trade territory of Dallas are Texas, Arkansas, Oklahoma and Louisiana.

By way of showing the growth of the section, figures from the Blue Book of Southern Progress, published by the MANUFACTURERS RECORD, are assembled on page 7 of the section on Markets. The four states of the survey compare with the United States as follows:

Subject	Per Cent Increase, 1900-1925,	
	United States	Southwest
Population	56.1	78.2
True value, all property.....	262	336
Manufactured products, value.....	429	729
All farm products, value.....	257	336
Mineral products, value.....	396	7,333
Farm property, value.....	178	252
Cotton products, value.....	65	91
Oil products, barrels.....	1,100	48,544
Improved land, acres.....	22	94
Motor vehicle registration.....	1,875	*2,628
Bank deposits	541	1,905
Railway mileage	29	70

*1910 to 1925.

Here is a formidable list in which the Southwest has led the nation as a whole by a very wide margin.

Another table from which some interesting and highly informative comparisons may be drawn is that on page 24 of the same section. The most striking comparison is between the vast stretches of thinly populated Southwest and the small, densely-populated and highly-productive New England. Taking the totals for these two sections and reducing them to a per square mile basis for the sake of comparison, we get the following table:

Section	Area Sq. Mi.	Per Square Mile		
		Popula- tion	Value Crops and Livestock	Value Mineral Prod- ucts Manufacture
New England	66,424	123	\$3,710	\$730
Southwest	437,794	27	3,535	2,280

The Southwest, famed for its exports of livestock and crops, produces less of these things per square mile than does New England, but about 333 per cent more when figured on a per capita basis. Should the density of population of the Southwest ever equal the present density in New England, or 123 persons per square mile, and the per capita production of animal and crop values increase proportionately, the per square mile production will be \$15,330. At the present time such production is increasing about five times as rapidly as population, and is therefore likely to equal the above figure in about 20 years.

The mineral production of the Southwest, already three times as great per square mile as that of New England, is based on resources that are only beginning to be tapped, whereas the resources of New England are developed very nearly to their limit. What the mineral production of the Southwest may become in future years can only be conjectured.

It is in the value added to raw materials by manufacture that New England far outstrips the Southwest. Before the Southwest can equal the present productivity of New England in this particular it will have to increase by 2820 per cent its present production *per square mile* in this classification. When it is considered that New England has to import nearly all of its raw materials as well as the fuel for a large part

of its power, whereas the Southwest is richly blessed in raw materials as well as in coal, lignite, oil and gas, and that the factory production in the Southwest is increasing much more rapidly than it is in New England, it seems likely that many of us will see the day when the per square mile factory production in that section will equal what it is today in New England. When that time comes, the value added by manufacture in the Southwest will have increased from \$756,484,000 to \$21,300,000,000.

The temptation is strong to elaborate on more of the many compilations included in the publication, but space is sharply limited. The foregoing has been taken from just two of the tables in the first of the six sections of the volume. There are five other sections.

The second section of the volume, Dallas—Distribution Center, contains an elaborate analysis of population by counties in the four States, and arranged as they fall within concentric circles having their center in Dallas; of retail stores classified as grocery, dry goods and notions, general and department stores and drug stores, clothing stores of various sorts and a variety of other distributing agencies. Following this is a study of the transportation facilities.

The third is an industrial survey of Dallas, made by Lockwood, Greene & Co. This is a careful, methodical analysis, expressed with typical engineering moderation and caution, of the various advantages of Dallas as a manufacturing center. Canning, dairy products, glass making, boots and shoes, clothing manufacture—already well established there—leather tanning and manufacture, agricultural implements, gas and oil stoves, burners and appliances, and industries demanding an abundant supply of natural gas are some of the lines suggested for the city. Power, labor and taxes are included in this section.

The fourth section, Dallas as a City in Which to Live, is described by its title.

The Growth of Dallas, the fifth section, is a statistical study of the growth of the city, while the last, Texas Corporation Laws, is a statement, in 10 or 12 pages, of the essential things a business man considering the establishment of a plant in Texas would want to know.

In a word, the publication is an analysis of Dallas, not only as a place in which to live and manufacture, but also as the center of a large, rich and rapidly-growing local market. Any one or all of the six sections "are available to business executives who request them on the letterhead of the institution they represent." Address inquiries to Industrial Department, Dallas Chamber of Commerce.

Forestry Campaign in the South.

A fund of \$150,000 for the promotion of forestry education in the South has been raised by the American Forestry Association, Washington, D. C., as announced by Ovid M. Butler, executive secretary, to state representatives and foresters at a special meeting in Atlanta, Ga., where final plans for the conduct of the work were adopted. The campaign will be primarily to eradicate forest fires in Georgia, Florida and Mississippi, and will be conducted in close co-operation with the forest departments and the forestry and other educational agencies of the three States. Present plans look to starting the work in early September.

The project will extend over a period of three years. Motor trucks equipped with moving picture apparatus, lantern slides and forestry material will carry the direct lesson of forest fire prevention to country schools and communities. Facts relating to the more important Southern trees and the relation of timber growing to general farming and local prosperity will be placed in the schools, adapted to the use of both teachers and children.

Making Known Hampton Roads Advantages to Great Britain.

Major LeRoy Hodges, of the Virginia State Chamber of Commerce, has delivered more than a score of addresses on Hampton Roads and its advantages in English trade since his arrival in England last month. He spoke before the annual meetings of chambers of commerce at Bristol, at Cardiff, at Liverpool, at Manchester, at Southampton, at Sheffield, and twice in Birmingham and Northampton.

According to cabled dispatches the addresses made by Major Hodges have been enthusiastically received and Hampton Roads is becoming a more general topic among the business men of England.

\$13,000,000 Road and Bridge Construction in Alabama.

Montgomery, Ala.—During the first nine months of the fiscal year, contracts have been awarded by the State Highway Department for the construction of 188 road and bridge projects in Alabama, at an aggregate cost of approximately \$13,000,000, according to figures presented by Alabama Highways, the official publication of the department. Since June 30—the end of the third quarter of the fiscal year—additional contracts have been awarded for the construction of 306 miles of roads and a number of bridges and bids are now pending on 12 more projects.


Awards for Federal aid projects during the first nine months cover a total of 365 miles of highways to cost \$3,084,581 and 12 bridge projects to cost \$436,949. Road work includes 70 miles of cement concrete to cost \$945,531; 19 miles of bituminous macadam, \$155,242; 17 miles of surface with lime rock base, \$231,711; 88 miles of gravel, \$616,254; 32 miles of sand clay surface, \$229,733, and 139 miles of grade

and drainage construction, \$900,110. State projects cover a total of 799 miles of road work to cost \$6,093,643 and 51 bridge projects to cost \$1,395,963, the road work including 107 miles of cement concrete, \$1,779,301; 27 miles of bituminous macadam, \$215,602; 23 miles of rock asphalt on black base, \$266,065; 211 miles of gravel, \$1,112,577; 117 miles of sand clay roads, \$704,685; 32 miles of bituminous surface treatment, \$121,200, and 282 miles of grade and drainage construction to cost \$1,894,213.

Sub-Contracts on 104-Room Hotel Addition.


Raleigh, N. C.—Work is rapidly progressing on a 104-room addition to the Hotel Sir Walter, construction having been started on June 4 and is expected to be completed by October 15. The new addition will provide a total of 344 rooms and baths in the entire building. It is operated by the Griffin & Bland Hotel Company, which also operates the Bland Hotel in Raleigh, the Robert E. Lee and Hotel Zinzendorf in Winston-Salem, N. C.; King Cotton Hotel in Greensboro, N. C., and the Hotel Petersburg in Petersburg, Va. James A. Salter, Raleigh, is the architect, and John W. Hudson, Jr., Tarboro, N. C., general contractor. Sub-contracts have been awarded as follows:

Cement—Penn-Dixie Cement Company, Kingsport, Tenn.
Common brick—Borden Brick and Tile Company, Goldsboro, N. C.
Crushed stone—Raleigh Granite Company, Raleigh.
Electrical work—Thompson Electrical Company, Raleigh.
Face brick and back-up tile—B. Mifflin Hood Brick Company, Raleigh.
Granite—Campbell Brothers, Raleigh.
Interior partitions—Southern Fireproofing Company, Atlanta.
Marble and tile—B. F. McClamroch & Company, Raleigh.
Millwork—Sanford Sash and Blind Company, Sanford, N. C.
Painting and interior decorating—Brewer Paint Company, Rocky Mount, N. C.
Plastering—D. Draddy & Co., Charlotte, N. C.
Plumbing and heating—Consolidated Heating and Plumbing Company, Raleigh.
Reinforcing steel—Truscon Steel Company, Youngstown, Ohio.
Roofing and sheet metal work—P. C. Shuman Company, Charlotte.
Sand and hauling—J. H. Ray, Raleigh.
Structural steel—Dietrich Brothers, Baltimore.
Terra cotta—Atlantic Terra Cotta Company, New York.



PROPOSALS

BOND ISSUES
BUILDINGS
PAVING
GOOD ROADS



Bids close August 15, 1928.

U. S. ENGINEER OFFICE, Galveston, Tex. Sealed proposals will be received here until 12 M., August 15, 1928, and then opened, for dredging Channel between Aransas Pass and Corpus Christi, Texas. Further information on application.

Bids close August 27, 1928.

U. S. ENGINEER OFFICE, Galveston, Tex. Sealed proposals will be received here until 12 M. August 27, 1928, and then opened, for dredging Channel from Galveston Harbor to Texas City, Texas. Further information on application.

Bids close September 4, 1928.

U. S. Engineer Office, Wilmington, N. C., August 4, 1928. Sealed bids will be received at this office until 12 o'clock noon September 4, 1928, and then publicly opened, for furnishing all labor and materials and performing all work for dredging in Shalotte River, N. C. Further information on application.

Bids close August 15, 1928.

U. S. CAPITOL, Office of the Architect, Washington, D. C., July 24, 1928.—Sealed proposals will be received at this office until 2 o'clock P. M. on the 15th day of August, 1928, and then publicly opened, for the construction of a high-tension conduit system or duct line between the Capitol Power Plant and the U. S. Capitol, in accordance with the specifications, copies of which may be had by addressing David Lynn, Architect of the Capitol, Washington, D. C.

RATE: 35 cents per line per insertion.
PUBLICATION DAY: Thursday.
FORMS CLOSE: 4 P. M. Monday.
DAY LETTER: When too late to send Copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest. The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements. The same rate applies—35 cents per line per insertion.

Bids close August 31, 1928.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., July 30, 1928.—SEALED BIDS will be opened in this office at 3 P. M. August 31, 1928, for the construction of the U. S. Postoffice at Newark, Del. Drawings and specifications, not exceeding six sets, may be obtained at this office, in the discretion of the Supervising Architect by any satisfactory general contractor, and provided a deposit is made of \$15 for each set to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. JAS. A. WETMORE, Acting Supervising Architect.

Bids close August 28, 1928.

\$35,000 4½% School Bonds

Radford, Virginia. Sealed bids will be received 1 P. M. August 28 for \$35,000 issue of School Bonds at 4½% interest. Right is reserved to reject any or all bids. Address R. W. ARTHUR, City Manager.

Bids close August 14, 1928.

\$65,000 Sewer Bonds

Highland (P. O. Hickory), N. C. Proposals will be received by Town of Highland, North Carolina, at 7 P. M. August 14, 1928, for the purchase of \$65,000 of Sewer Bonds of said municipality, dated August 1, 1928, and maturing on said day and month in each year as follows: \$1000. 1931 to 1935, both inclusive; \$2000, 1936 to 1965, both inclusive.

Interest payable semi-annually, both principal and interest payable in the City of New York; denominations of \$1000 each, bidders to name the interest rate.

All bids must be on forms furnished by the undersigned, and each bid must be accompanied by a certified check upon an incorporated bank or trust company, payable to order of undersigned official, or a sum of money for or in an amount equal to two per centum of face amount of bonds paid for, to secure the municipality against any loss resulting from failure of bidder to comply with terms of his bid.

CHAS. E. HEFNER, Clerk.
BRUCE CRAVEN, Attorney,
Trinity, N. C.

(Highland is in Catawba County adjoining City of Hickory. Assessed \$1,765,000. Total debt \$151,000. Net debt \$107,266.58. Population 2250.)

Bids close September 6, 1928.

Office of Constructing Quartermaster, Fort Bragg, N. C. Sealed proposals in triplicate will be received until 10 A. M. September 6, 1928, and then opened, for construction and completion of one Field Artillery Battalion Barracks and one Field Artillery Regimental Barracks, including the utilities thereto, at Fort Bragg, N. C. \$25 deposit required for drawings, etc. Further information on request.

Bids close August 14, 1928.

\$400,000 Highway Bonds

COASTAL HIGHWAY BONDS OF THE COUNTIES OF DILLON, FLORENCE, WILLIAMSBURG, COLLETON, BEAUFORT AND JASPER, SOUTH CAROLINA.

(JOINT COUNTY OBLIGATIONS)
Columbia, S. C.

Sealed bids, addressed to the undersigned, will be received by the Board of Coastal Highway Commissioners at the office of the State Treasurer of South Carolina, in Columbia, South Carolina, until Tuesday, August 14, 1928, at 12 o'clock M., for the purchase of \$400,000 Coastal Highway Bonds of the Counties of Dillon, Florence, Williamsburg, Colleton, Beaufort and Jasper, maturing \$44,000 of bonds on February 1 in each of the years 1931 to 1938, inclusive, and \$48,000 of bonds on February 1, 1939. Bonds dated August 1, 1928. Interest payable semi-annually (February 1 and August 1). Coupon bonds, registerable as to principal only, payable in New York in gold. Denomination \$1000. General joint obligations of the six counties, issued under Act No. 756 of the Acts of 1926. The payment of these bonds is secured not only by a sufficient levy on all taxable property in the six counties (the primary fund for payment), but also by a so-called Reimbursement Agreement between the counties and the State Highway Commission of South Carolina, the bonds being issued for the construction of State Highways.

The bonds will bear interest from their date at the rate of four and one-half per centum (4½%) or four and three-quarters per centum (4¾%) per annum, the rate to be named by the bidder. No bid for 4½% bonds will be considered if a legally acceptable bid is received for 4¾% bonds.

Purchasers will be furnished with approving opinion of Messrs. Reed, Hoyt & Washburn of New York.

A certified check, payable to the order of the Board of Coastal Highway Commissioners, or cash for 2% of the face amount of bonds bid for must accompany bid.

The right is reserved to reject any and all bids.

Dated July 27, 1928.

WADE STACKHOUSE, Chairman,
Board of Coastal Highway Commissioners.
E. T. H. SHAFFER, Secretary,
Board of Coastal Highway Commissioners.

Bids close August 21, 1928.

Virginia Highway Work

Richmond, Virginia.

The Commission will receive bids on:

Proj.	Length	Type
S470	7.37 Mi.	Soil
S493D	2.5 Mi.	Gr. and Dr.
S496H	3.8 Mi.	Soil-Gravel

Bids close August 21, 1928.

Sidewalk

DEPARTMENT OF HIGHWAYS

Richmond, Va.

Rt. 31, Proj. 225-A—Sidewalk to Bridge at Fredericksburg: 23,000 F.B.M., 34,750 Lbs. Structural Steel.

Bids close August 21, 1928.

State Highways

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building six sections of State Highway as follows:

Frederick County, Contract No. F-114—One section of State Highway between Frederick and Yellow Springs for a distance of 1.0 mile. (Mac. Resur.)

Montgomery County, Contract No. M-107—One section of State Highway from Gaithersburg toward Goshen for a dis-

tance of 1.0 mile. (Pen. Macadam.)

St. Mary's County, Contract No. SM-45—One section of State Highway from New Market toward Budds Creek and from New Market toward Huntersville for a distance of 1.5 miles. (Gravel.)

Cecil County, Contract No. Ce-68—One section of State Highway between Farmington and Bayview for a distance of 0.45 mile. (Concrete.)

Talbot County, Contract No. 415-A—One section of State Highway along Harrison Street, Easton, between the old city line and the B. C. & A. R. R. tracks, a distance of 0.19 mile. (Concrete Shoulders.)

Dorchester County, Contract No. D-48—One section of State Highway from Finchville toward Reliance for a distance of 0.6 mile. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 21st day of August, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 2nd day of August, 1928.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close August 15, 1928.

Gravity Water Works System

Purcellville, Virginia.

Bids are invited until 8 o'clock P. M., Wednesday, August 15, 1928, on furnishing all materials and labor and building a gravity system of water works for the Town of Purcellville, Va., comprising the following:

A water distribution system and appurtenances.

A 60,000-gallon steel tower and tank (130 ft.-6 in.), with foundations.

A 2,000,000-gallon steel reservoir, with foundations. (Alternate bid on a 1,000,000 reservoir.)

A system of gravity mains and appurtenances.

Two intake dams, cribs and pools.

The above includes approximately:

34,587 feet of 6-inch cast-iron mains.

7,841 feet of 4-inch cast-iron mains.

6,730 feet of 2-inch galvanized iron mains.

24 fire hydrants.

13 6-inch gate valves.

13 4-inch gate valves.

7 2-inch gate valves.

4 automatic air release valves.

1 automatic altitude controlling valve.

Each bid must be accompanied with a certified check or cashier's check (not a bidder's bond), payable to the Town of Purcellville, and which will become a forfeit to the said town in case contract be not entered upon and indemnity bond executed within ten days after the award has been made.

The bidder to whom the contract may be awarded will be required to execute an indemnity bond in the amount of the contract with some satisfactory guarantee company (no private bond will be accepted) to guarantee the proper performance of the contract.

Plans and specifications may be examined at the Town Office in Purcellville.

A copy of both plans and specifications may be had FROM THE MAYOR ALONE on receipt of a check for \$10.

This check will not be returned to any party who has not submitted a bona fide bid and returned the plans and specifications in good order, both before the date set for closing bids.

The Town of Purcellville reserves the right to reject any or all bids or to let the contract by items or groups of items.

A. N. ADAMS, Mayor.

J. V. NICHOLS,

Chairman Water Committee.

Engineers:

THE AMBLER ENGINEERING CO.,

Richmond, Va.

Bids close August 14, 1928.

Sanitary Sewer System

York, Ala.

Sealed bids will be received by the Town of York, Alabama, at the office of Town Clerk until 5 P. M. August 14, 1928, and at that time publicly opened, for the construction of a sanitary sewer system under Improvement Ordinance No. 101, the same being located in the Town of York, Alabama. The principal items of work are approximately as follows:

26,300 Lin. Ft.	8-inch Sanitary Sewer.
1,390 Lin. Ft.	10-inch Sanitary Sewer.
380 Lin. Ft.	12-inch Sanitary Sewer.
2,730 Lin. Ft.	15-inch Sanitary Sewer.
1,030	8 inch x 4 inch Wyes.
46	10 inch x 4 inch Wyes.
60	15 inch x 4 inch Wyes.
82	Manholes.

Plans and specifications are on file in the office of the Town Clerk at York, Ala., and in the office of the Consulting Engineers, Birmingham, Alabama. Specifications and proposal blanks can be secured on deposit of \$5 from the undersigned or from the Consulting Engineers. Copy of the plans will be mailed by the Consulting Engineers on receipt of payment (not deposit) of \$5.

The right to reject any or all bids is reserved.

Cash or certified check or proposal bond for Five Thousand Dollars, made payable to the Town of York, Alabama, must accompany each bid as evidence of good faith and as a guarantee that if awarded contract the bidder will execute the contract and give bond as required.

H. L. HOOT, Mayor.

ROBERT L. TOTTON, INC.,
Consulting Engineers,
Birmingham, Ala.

Bids close August 20, 1928.

Water Works and Sanitary Sewers

Chesterfield, Virginia.

Sealed proposals will be received by the Board of Supervisors of Chesterfield County, Virginia, at the Court House, for furnishing all labor, materials and equipment and constructing a Water Works and Sanitary Sewerage Systems, as per plans of Engineers, in and for the Water and Sewer District of Ettrick, Va., until 10 A. M. August 20, 1928, at which time they will be opened and read publicly.

The principal items of work are approximately as follows:

48 Feet	of 14-inch Cast-Iron Pipe.
1,775 Feet	of 10-inch Cast-Iron Pipe.
3,200 Feet	of 8-inch Cast-Iron Pipe.
6,400 Feet	of 6-inch Cast-Iron Pipe.
48 Feet	of 4-inch Cast-Iron Pipe.
2,100 Feet	of 1½-inch Galvanized Steel Pipe.
6,300 Feet	of 2-inch Galvanized Steel Pipe.
21	Fire Hydrants.
36	Valves.
17,190 Feet	Sewer Pipe.
Accessories to Water and Sewer Systems.	

Bids must be accompanied by a certified check on a bank satisfactory to the County Officials, or a bidder's bond acceptable to the County Officials for five (5%) per cent of the amount of the construction bid, drawn to the order of the Board of Supervisors of Chesterfield County, Virginia, which will be forfeited to the county in event the county accepts bid and bidder fails to execute contract and surety bond within ten days after award. Checks or bonds of unsuccessful bidders will be returned to bidders.

All bids will be compared on basis of the Engineer's estimate of the amount of work to be done. Copies of specifications may be obtained from the Engineers or County Clerk upon receipt of \$5 deposit, which amount will be returned to bona fide bidders.

Plans may be seen at the office of the Engineers or the office of the County Clerk, or a set will be furnished by the Engineers upon payment of \$10, which amount will NOT be returned.

The right is reserved to reject any or all bids, or to award contract to any bidder or bidders in part or as a whole, as considered to the best advantage of the county.

CHESTERFIELD COUNTY, VIRGINIA.

CHAS. C. REED, Chairman.

PHILLIP V. COBBLIN, Clerk.

J. B. McCRARY ENGINEERING
CORP., Engineers

Atlanta, Georgia.

Bids close August 13, 1928.

Addition to Power Plant

Orlando, Florida.

Sealed bids will be received at office of Orlando Utilities Commission, City Hall, Orlando, Florida, at 10 A. M. August 13, 1928, for erecting addition to power plant.

Bids close August 14, 1928.

Well Drilling

River Junction, Fla.

Sealed proposals on blank forms, furnished by the town, addressed to the "MAYOR AND COUNCIL, RIVER JUNCTION, FLORIDA," will be received at the Town Hall in River Junction, Florida, until 7.30 o'clock P. M. August 14, 1928, for furnishing all material, equipment and labor necessary for the drilling and completion of one or more deep wells. Bids will be considered on wells ranging in size from fourteen (14) down to six (6) inches in diameter.

Each bid shall be accompanied by a certified or cashier's check in the sum of not less than two hundred and fifty (\$250) dollars, made payable to W. L. Shepard, President, Town Council, as evidence of good faith upon the part of the bidder.

Specifications may be seen at the offices of the Town Clerk and the Engineers, and may be obtained from the Engineers upon payment of one dollar to cover cost of reproduction.

The right is reserved to reject any or all bids.

TOWN OF RIVER JUNCTION, FLORIDA.

B. F. BARNES, Mayor.
B. T. HUNT, Clerk.

H. S. JAUDON ENGINEERING CO.,
Engineers,
Leesburg, Florida.

Bids close August 17, 1928.

Diesel Engines

Tarboro, N. C.

THE TOWN OF TARBORO INVITES SEALED BIDS LOOKING TO THE PURCHASE BY THE TOWN OF TWO DIESEL OR OIL ENGINES FOR USE IN THE TOWN'S ELECTRIC LIGHT PLANT.

Public notice is hereby given that the Town of Tarboro will receive sealed bids looking to the purchase by the said town of two Diesel generating engines or units of the following sizes, to wit:

800 to 900 H.P. and 532 to 600 K. W. capacity each.

Bidders are invited by the town and will be received by J. H. Jacobs, Town Clerk, up until 7 P. M. on the 17th day of August, 1928.

Bids must be accompanied by bidder's certified check in the sum of five per cent of the amount bid as an evidence of good faith.

Proposals will be received on two or four cycle, solid injection or air injection, cold starting engines of manufacturers standard make and rating.

The time necessary for the building of the machines and putting them in successful operation in the municipal power plant of the Town of Tarboro shall be specifically stated in the bidder's proposal, and the successful bidder will be held to this agreed time limit.

Plans and specifications for said engines and parts and accessories thereto may be had by interested parties upon application being made to J. H. Jacobs, Town Clerk, at his office in Tarboro, North Carolina.

Bids will be opened on Friday night, August 17, 1928, at 8 P. M., at a meeting of the Board of Commissioners of Tarboro at the City Hall, Tarboro, North Carolina.

The Town of Tarboro reserves the right to reject any proposals or bids.

This August 4th, 1928.

W. C. HARGROVE, Mayor.
J. H. JACOBS,

Town Clerk and Secretary.

Bids close August 15, 1928.

Fire Escapes

DEPARTMENT OF EDUCATION

OFFICE OF THE

BOARD OF SCHOOL COMMISSIONERS
MADISON AND LAFAYETTE AVENUES

Baltimore, August 1, 1928.

Sealed Proposals, in duplicate, addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M. Wednesday, August 15, 1928, endorsed as follows:

"Proposals for Furnishing and Erecting Fire Escapes at School No. 209 for the Department of Education."

Specifications for the above may be obtained at the office of the Chief of Bureau of Maintenance and Operations of the Department of Education, Lafayette and Carrollton Avenues, Baltimore, Md., on and after August 2, 1928, on deposit of five dollars for each set of specifications, which amount will be returned upon surrender of the specifications.

Each bid must be accompanied by a certified check of the bidder for \$100, made payable to the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any or all bids.

JOSHUA R. JOLLY,

Acting Secretary Board of
School Commissioners.

Approved August 1, 1928.

HOWARD BRYANT,

Acting President Board of Awards.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR LEASE OR SALE

Large deposits of Iron Ore, Oolitic Limestone, Fluor Spar and Zinc, Quartzite, Sandstone, Glass Sands. On Railroad; adjoins gas field; labor of a good class; low price. In Western Kentucky. W. S. LOWERY, Salem Star Route, Marion, Ky.

FOR SALE—470,725 acres located in State of Durango, Mexico, priced at \$100,000; \$40,000 cash balance in exchange; full descriptions if interested. Also fine 5000-acre ranch located in North Park, Colo., all stocked; a real bargain. Address No. 6944, care of Manufacturers Record, Baltimore.

TIMBER AND TIMBER LAND

FIVE THOUSAND ACRES land bordering on railroad. Good growth young timber. Fine hunting preserve. Price \$8 per acre. BOX 106, GREELEYVILLE, S. C.

FOR SALE—100,000,000 ft. fine barrel stave, export, white oak Timber, Ark.; also 200,000,000 ft. mixed hardwood, Southern Ark.; same amount Central La. G. M. Magill, 2nd Nat. Bank Bldg., Houston, Tex.

FOR SALE—28,000 acres land in North Florida, with a minimum of 25,000,000 feet mixed hardwoods, 12,000,000 feet Long-leaf Pine, 200,000 poles, 20 crops turpentine now in operation and 15 more available. Situated on railroad and is now a revenue producing property. Price in fee, \$10.50 per acre, cash. Address P. O. Box 2884, St. Petersburg, Fla.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

TIMBER OPERATION

SAWMILL FOR SALE OR LEASE
Capacity five thousand feet daily. Twelve million feet of timber available. P. O. Box 1211, Tampa, Florida.

FARM, FRUIT AND TRUCK LANDS

ARKANSAS

6500 ACRES hill and valley land, on good road, near State highway; almost enough commercial timber to pay for tract; plenty of water from creeks and springs; fine for stock ranches or colonization. Clay and Bauxite lands; railroad transportation; highways; hydro-electric power and natural gas. Cheap white American labor. H. W. Anderson, Benton, Ark. Write for farm list.

FARM, FRUIT AND TRUCK LANDS

CUBA

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Manufacturers selling this district. We
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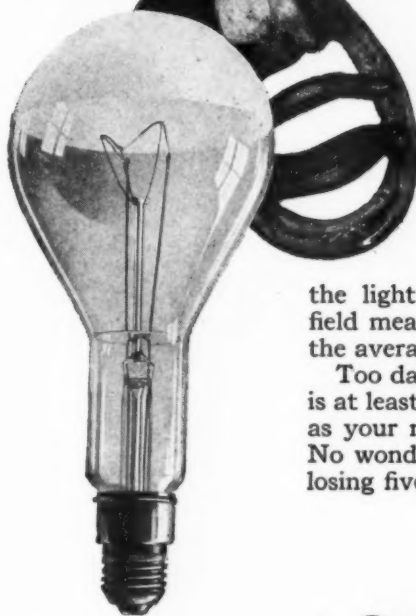
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TIMKENS SWEEP ON

THE WAY in which Timken Bearings have swept into dominance in so many types of industrial equipment has become the talk of all Industry. So radically and so rapidly have previous ideas of bearing performance been revolutionized by Timken Tapered Roller Bearings that the mechanical reasons which made this performance possible are sometimes lost sight of:

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POSITIVELY ALIGNED ROLLS The design of the Timken Bearing provides for full contact along the entire length of the roll, cone and cup. The rolls are positively aligned to the axis of the cone and cup, thus allowing the bearing to function continuously at its full extra capacity.

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TIMKEN *Tapered Roller* **BEARINGS**

